



"HAM EQUIPMENT BUYER'S GUIDE"

PICTURES AND DESCRIPTIONS OF

RECEIVERS - TRANSMITTERS - TRANSCEIVERS

AND

AMPLIFIERS

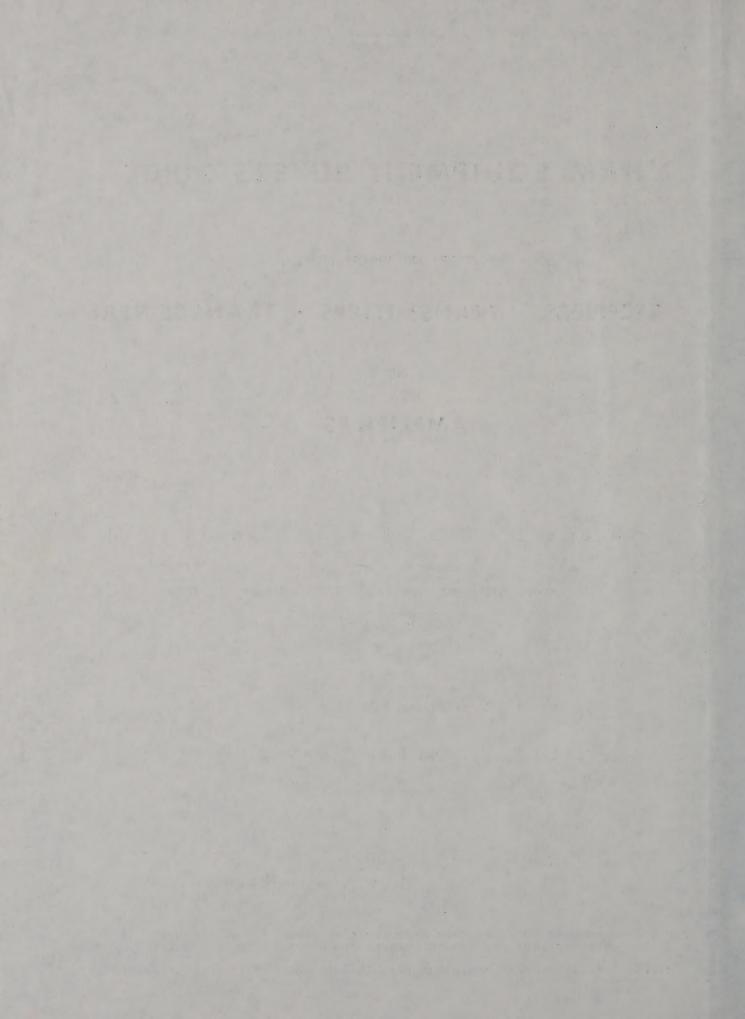
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(Covers Equipment from Late 1972 to January 1, 1975)

Compiled and Published by

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Note: Prices have been included when known to give some idea of the price class of the equipment but may not be current and are subject to change.



Model No./Name	See	Туре	Model No./Na	ame Se	ee	Type
- 1050		The second second	The land of the land		LST STATE	10902
A4950	Dycomm	Amplifier	HA-201			Amplifier
A4960	Dycomm	Amplifier	HA-202	-		Amplifier
A8949 AA-22	Dycomm Drake	Amplifier Amplifier	Hampak HR-2B			Batt. Pack
Alpha 74K	ETO	Amplifier	HR-220		egency	Transceiver Transceiver
Alpha 274	ETO	Amplifier	HRT-2		egency	Transceiver
Alpha 374	ETO	Amplifier	HT-144		HF Comm.	Transceiver
AN/FRR-59A Mil.		Receiver	HT-144B		IF Comm.	Transceiver
	Surplus	Receiver	HT-146			Transceiver
	.Telecomm	Receiver	HW-202		eath	Transceiver
	.Telecomm	Transmitter				
Astronaut-5 Radi			IC-21A	Inoue I		Transceiver
Atlas 180		Transceiver	IC-22	Inoue 1		Transceiver
Avenger One	SGC Inc.	Transceiver	IC-30	Inoue I		Transceiver
Poarcat III	Electra So	can Monitor	IC-60 IC-200A	Inoue I		Transceiver
Bearcat III Beltek	Beltek	Transceiver	IC-230	Inoue I		Transceiver Transceiver
Brimstone 144		.Transceiver	Intercontine			
BX-1	DRC-KIT	Transmitter	Inccreoneria	circuit or	500 111	io. Novel
			MA/E 13, etc	c. G.E.	(Surplus)	Transceivers
CL-146	Tempo	Transceiver	MB20A		wan	Transceiver
CL-220	Tempo	Transceiver	MB40	Sw	wan	Transceiver
Cloverleaf(SB-45			MB40A	Sw	wan	Transceiver
CMC60B	R.C.A. (Surp.		MB80		wan	Transceiver
CMCT30	R.C.A. (Surp		MB80A		van	Transceiver
CMCT60	R.C.A. (Surp		MB100		wan	Amplifier
CMFT50 CMU-15B	R.C.A. (Surp	lus) Xcver	MB200 ME33		wan	Amplifier Transceiver
CMUA6	R.C.A. (Surp		Message Mate		(Surplus)	Transceiver
CMUA-35N2T	R.C.A. (Surp.		Metrum II		otorola	Transceiver
Cobra 200	Comcraft	Transceiver	MFJ-40T		terprises	
00224 200	0002420	124115001101	Mobiline I		enave	Transceiver
D33CMT-3100BM M	otorola (Surp.	lus) Xcver	Mobiling II	Ge	enave	Transceiver
	otorola (Surp	lus) Xcver	MT/33 etc.	G.E.	(Surplus)	Transceiver
DS-900	Kenwood	DC P.S.	Multi-2000		.Telecomm	
DSR-2	Drake	Receiver				Taron Saldy
DTO3 G	.E. (Surplus)	Radiotel.	NFM22	Ninic (S	Surplus)	Receiver
EBC-144 Emer	gency Beacon	Transceiver	P15A1	America	an Basic	Amplifier
EBC-144JR Emer	gency Beacon	Transceiver		VIIIGTICS		umbiliter
PIPC TAIOIL DINCT		"l'rangceiver I	PISAI	M-Tech	Engineero	Amplifier
EBC-7000 Emer	gency Beacon	Transceiver Receiver	P15A1 P50A10			Amplifier Amplifier
EBC-7000 Emer Echo III	gency Beacon	Receiver	P15A1 P50A10 P50A10	America	an Basic	Amplifier Amplifier Amplifier
	gency Beacon Dycomm	Receiver Repeater	P50A10	America M-Tech	an Basic	Amplifier
Echo III Electro-Monitor	gency Beacon Dycomm Electrosonics e & Schwarz	Receiver Repeater	P50A10 P50A10 P100A10 P100A10	America M-Tech America M-Tech	an Basic Engineerg an Basic Engineerg	Amplifier Amplifier Amplifier Amplifier
Echo III Electro-Monitor EK-56 Rohd Escort	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom	Receiver Repeater Monitor Receiver Transceiver	P50A10 P50A10 P100A10 P100A10 P100A20	America M-Tech America M-Tech M-Tech	an Basic Engineerg an Basic Engineerg Engineerg	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier
Echo III Electro-Monitor EK-56 Rohd Escort EX20	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello	Receiver Repeater S Monitor Receiver Transceiver Transmitter	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25	America M-Tech America M-Tech M-Tech America	an Basic Engineerg an Basic Engineerg Engineerg an Basic	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier
Echo III Electro-Monitor EK-56 Rohd Escort	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom	Receiver Repeater Monitor Receiver Transceiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(pref:	America M-Tech America M-Tech M-Tech America ix) KI	an Basic Engineergan Basic Engineerg Engineergan Basic LM Elect.	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S	gency Beacon Dycomm Electrosonics & Schwarz Pacificom Excello Excello	Receiver Repeater Monitor Receiver Transceiver Transmitter Transmitter	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(prefi	America M-Tech America M-Tech M-Tech America ix) KI ix) TF	an Basic Engineerg an Basic Engineerg Engineerg an Basic LM Elect. PL Comm.	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Series
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S	gency Beacon Dycomm Electrosonics & Schwarz Pacificom Excello Excello Yaesu	Receiver Repeater Monitor Receiver Transceiver Transmitter Transmitter Transmitter	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(prefinal particular part	America M-Tech America M-Tech M-Tech America ix) KI ix) TH	an Basic Engineerg an Basic Engineerg Engineerg an Basic LM Elect. PL Comm. Enginrg	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Series Amp. Series
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transmitter Amplifier	P50A10 P50A10 P100A10 P100A20 P100A25 PA(prefi PA(prefi PA(prefi PA(prefi PA(prefi	America M-Tech America M-Tech M-Tech America ix) KI ix) Ti ix) VHF	an Basic Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Series Amp. Series Amp. Series
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E	gency Beacon Dycomm Electrosonics & Schwarz Pacificom Excello Excello Yaesu Yaesu F.Johnson	Receiver Repeater Monitor Receiver Transceiver Transmitter Transmitter Transmitter	P50A10 P50A10 P100A10 P100A20 P100A25 PA(prefi PA(prefi PA(prefi Patrolman-3 Pocket Mate	America M-Tech America M-Tech M-Tech America ix) KI ix) Ti ix) VHF Radi G.E.(St	an Basic Engineerg an Basic Engineerg Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Series Amp. Series Amp. Series Amp. Series Transceiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transmitter Amplifier Transceiver	P50A10 P50A10 P100A10 P100A20 P100A25 PA(prefi PA(prefi PA(prefi PA(prefi PA(prefi	America M-Tech America M-Tech America ix) Ki ix) Ti ix) VHF Radi G.E.(So	an Basic Engineerg an Basic Engineerg Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Series Amp. Series Amp. Series
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E	gency Beacon Dycomm Electrosonics & Schwarz Pacificom Excello Excello Yaesu Yaesu F.Johnson F.Johnson	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transmitter Amplifier Transceiver Transceiver	P50A10 P50A10 P100A10 P100A20 P100A25 PA(pref: PA(pref: Patrolman-3 Pocket Mate Progress Lin	America M-Tech America M-Tech M-Tech America ix) KI ix) Ti ix) VHF Radi G.E.(Su ne G.E.	an Basic Engineergan Basic Engineergan Basic LM Elect. PL Comm. Enginrg io Shack/Aurplus).(Surplus)	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Series Amp. Series Amp. Series Amp. Series Amp. Series Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transmitter Transceiver Transceiver Transceiver Transceiver Transceiver Transceiver Transceiver Transceiver Transceiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(pref: PA(pref: PA(pref: Patrolman-3 Pocket Mate Progress Liv	America M-Tech America M-Tech America ix) KI ix) VHF Radi G.E.(Su ne G.E.	an Basic Engineergan Basic Engineergan Basic LM Elect. PL Comm. Enginrg io Shack/Aurplus).(Surplus)	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Series Amp. Series Amp. Series Transceiver FM Series
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg Tempo	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(pref: PA(pref: Patrolman-3 Pocket Mate Progress Lin	America M-Tech America M-Tech America ix) KI ix) TF ix) VHF Radi G.E.(St ne G.E.	an Basic Engineerg an Basic Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) .(Surplus) yGain uezar	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Amplifier Transceiver FM Series Receiver Amplifier
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg Tempo Tempo	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(pref: PA(pref: PA(pref: Patrolman-3 Pocket Mate Progress Lin ProScan QC-210 R-4C	America M-Tech America M-Tech M-Tech America ix) Ki ix) Tr ix) VHF Radi G.E.(St ne G.E. Qu	an Basic Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) (Surplus) yGain uezar	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Harden
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer	gency Beacon Dycomm Electrosonics & Schwarz Pacificom Excello Excello Yaesu Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg Tempo Tempo HyGain	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Amplifier	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(pref: PA(pref: PA(pref: Patrolman-3 Pocket Mate Progress Lip ProScan QC-210 R-4C R-388	America M-Tech America M-Tech M-Tech America ix) KI ix) TF ix) VHF Radi G.E.(St ne G.E. Hy Mil. St	an Basic Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) (Surplus) yGain uezar rake urplus	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amplifier Transceiver FM Series Receiver Amplifier Receiver Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg Tempo Tempo HyGain Patch/Spkr/E	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Amplifier xternal VFO	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(prefi PA(prefi Patrolman-3 Pocket Mate Progress Lip ProScan QC-210 R-4C R-388 R-389	America M-Tech America M-Tech M-Tech America ix) KI ix) VHF Radi G.E.(St ne G.E. Hy Mil. St Mil. St	an Basic Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) .(Surplus) yGain uezar rake urplus	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amplifier Transceiver Amplifier Receiver Receiver Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu FPM300MkII"Safar	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg Tempo Tempo HyGain Patch/Spkr/E: i" Hallicraf	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Amplifier xternal VFO ters Xcver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(prefi PA(prefi PA(prefi Patrolman-3 Pocket Mate Progress Lip ProScan QC-210 R-4C R-388 R-389 R-390	America M-Tech America M-Tech M-Tech ix) Ki ix) VHF Radi G.E.(St ne G.E. Hy Mil. St Mil. St Mil. St	an Basic Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) .(Surplus) yGain uezar rake urplus urplus urplus	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Fransceiver FM Series Receiver Amplifier Receiver Receiver Receiver Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu FPM300MkII"Safar FR-101	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Amplifier xternal VFO	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(pref: PA(pref: PA(pref: Patrolman-3 Pocket Mate Progress Lip ProScan QC-210 R-4C R-388 R-389 R-390 R-390 R-390A	America M-Tech America M-Tech M-Tech America ix) Ki ix) VHF Radi G.E.(St ne G.E. Hy Mil. St Mil. St Mil. St	an Basic Engineerg an Basic Engineerg Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) (Surplus) yGain uezar rake urplus urplus urplus urplus	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amplifier Transceiver Amplifier Receiver Receiver Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu FPM300MkII"Safar	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg Tempo Tempo HyGain Patch/Spkr/E: i" Hallicraf	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Receiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(prefi PA(prefi PA(prefi Patrolman-3 Pocket Mate Progress Lip ProScan QC-210 R-4C R-388 R-389 R-390	America M-Tech America M-Tech America ix) ix) ix) ix) Fr Radi G.E.(St ne G.E. Hy Mil. St Mil. St Mil. St Mil. St Mil. St	an Basic Engineerg an Basic Engineerg Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) (Surplus) yGain uezar rake urplus urplus urplus urplus	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Faceiver FM Series Receiver Amplifier Receiver Receiver Receiver Receiver Receiver Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL:2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu FPM300MkII"Safar FR-101 FR-101S	gency Beacon Dycomm Electrosonics & Schwarz Pacificom Excello Excello Yaesu Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg Tempo Tempo Tempo Tempo Patch/Spkr/Esi Yaesu Yaesu Yaesu	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Amplifier xternal VFO ters Xcver Receiver Receiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(pref: PA(pref: Patrolman-3 Pocket Mate Progress Lip ProScan QC-210 R-4C R-388 R-389 R-390 R-390A R-392/URR	America M-Tech America M-Tech America ix) ix) ix) ix) Fr Radi G.E.(St ne G.E. Hy Mil. St Mil. St Mil. St Mil. St Mil. St	an Basic Engineerg an Basic Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) .(Surplus) yGain uezar rake urplus urplus urplus urplus urplus urplus urplus urplus enwood	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amplifier Transceiver FM Series Receiver Amplifier Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu FPM300MkII"Safar FR-101 FR-101S FRdx-400SD FT-101 FT-101B	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg Tempo Tempo HyGain Patch/Spkr/E: i" Hallicraf Yaesu Yaesu Yaesu Yaesu Yaesu	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Receiver Receiver Receiver Receiver Transceiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(pref: PA(pref: Patrolman-3 Pocket Mate Progress Lip ProScan QC-210 R-4C R-388 R-389 R-390 R-390A R-390A R-392/URR R-599A	America M-Tech America M-Tech M-Tech America ix) KI ix) TH ix) VHF Radi G.E.(St ne G.E. Hy Mil. St Mil. St Mil. St Mil. St Mil. St HyGain	an Basic Engineerg an Basic Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) (Surplus) yGain uezar rake urplus	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Series Amp. Series Allied Rovr Transceiver FM Series Receiver Amplifier Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu FPM300MkII"Safar FR-101 FR-101S FRdx-400SD FT-101 FT-101B FTdx-401	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu Yaesu Yaesu F.Johnson F.Johnson Clegg Clegg Tempo Tempo HyGain Patch/Spkr/Ei " Hallicraf Yaesu	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Receiver Receiver Receiver Receiver Transceiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(prefivation of the particle of the patrol of th	America M-Tech America M-Tech M-Tech America ix) KI ix) TF ix) VHF Radi G.E.(St ne G.E. Hy Mil. St Mil. St Mil. St Mil. St Mil. St HyGain Radio	an Basic Engineerg an Basic Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) (Surplus) yGain uezar rake urplus urplus urplus urplus urplus urplus urplus urplus urplus enwood urplus /Galaxy Shack-Alli	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Receiver F. Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu FPM300MkII"Safar FR-101 FR-101S FRdx-400SD FT-101 FT-101B	gency Beacon Dycomm Electrosonics & Schwarz Pacificom Excello Excello Yaesu Yaesu Yaesu Yaesu Yaesu F.Johnson Swan Clegg Clegg Tempo Tempo HyGain Patch/Spkr/Esi " Hallicraf Yaesu Yaesu Yaesu Yaesu Yaesu Yaesu Yaesu Yaesu Yaesu	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Receiver Receiver Receiver Receiver Transceiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(prefi PA(prefi Patrolman-3 Pocket Mate Progress Lip ProScan QC-210 R-4C R-388 R-389 R-390 R-390A R-392/URR R-599A R648/ARR41 R-1530 Realistic RFL(prefi	America M-Tech America M-Tech M-Tech America ix) KI ix) TF ix) VHF Radi G.E.(St ne G.E. Hy Mil. St Mi	an Basic Engineerg an Basic Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) (Surplus) yGain uezar rake urplus	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Amp. Series Amp. Series Allied Rovr Transceiver FM Series Receiver Amplifier Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu FPM300MkII"Safar FR-101 FR-101S FRdx-400SD FT-101 FT-101B FTdx-401 FV-101	gency Beacon Dycomm Electrosonics & Schwarz Pacificom Excello Excello Yaesu Yaesu Yaesu Yalohnson F.Johnson Swan Clegg Clegg Tempo Tempo Tempo Tempo HyGain Patch/Spkr/Ei " Hallicraf Yaesu Yaesu Yaesu Yaesu Yaesu Yaesu Yaesu Yaesu Yaesu	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(prefired from five five five five five five five five	America M-Tech America M-Tech M-Tech America ix) KI ix) TF ix) VHF Radii G.E.(St ne G.E. Hy Mil. St M	an Basic Engineerg an Basic Engineerg Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) (Surplus) yGain uezar rake urplus urplus urplus urplus urplus enwood urplus enwood urplus Accelli RC-KIT	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Receiver Transceiver Amplifier Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu FPM300MkII"Safar FR-101 FR-101S FRdx-400SD FT-101 FT-101B FTdx-401 FV-101 Galaxy R-1530	gency Beacon Dycomm Electrosonics & Schwarz Pacificom Excello Excello Yaesu Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg Tempo Tempo HyGain Patch/Spkr/Ei Yaesu	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Amplifier xternal VFO ters Xcver Receiver Receiver Receiver Transceiver Transceiver Transceiver Receiver Receiver Transceiver Transceiver Transceiver Transceiver Transceiver Transceiver Transceiver Receiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(pref: PA(pref: PA(pref: Patrolman-3 Pocket Mate Progran QC-210 R-4C R-388 R-389 R-390 R-390A R-392/URR R-599A R648/ARR41 R-1530 Realistic RFL(pref: RX-1 R&S_EK-56	America M-Tech America M-Tech M-Tech America ix) KI ix) TF ix) VHF Radi G.E.(St ne G.E. Hy Out Mil. St Mil. St Mil. St Mil. St Mil. St HyGain, Radio x) Vibr Rohde	an Basic Engineerg an Basic Engineerg Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) (Surplus) yGain uezar rake urplus urplus urplus urplus urplus urplus urplus enwood urplus enwood urplus CGalaxy Shack-Alli ratrol RC-KIT & Schwarz	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Receiver Amplifier Receiver
Echo III Electro-Monitor EK-56 Rohd Escort EX20 EX20S FL-101 FL2100 Fleetcom 550 E Fleetcom 557 E FM-2XA FM-21 FM27B FMH fmv2 Foot Warmer FP101 Yaesu FPM300MkII"Safar FR-101 FR-101S FRdx-400SD FT-101 FT-101B FTdx-401 FV-101 Galaxy R-1530 GR-110	gency Beacon Dycomm Electrosonics e & Schwarz Pacificom Excello Excello Yaesu Yaesu F.Johnson F.Johnson Swan Clegg Clegg Tempo Tempo HyGain Patch/Spkr/Ei " Hallicraf Yaesu HyGain Heath	Receiver Repeater S Monitor Receiver Transceiver Transmitter Transmitter Transceiver Receiver Receiver Transceiver	P50A10 P50A10 P100A10 P100A10 P100A20 P100A25 PA(pref: PA(pref: Patrolman-3 Pocket Mate Progress Lip ProScan QC-210 R-4C R-388 R-389 R-390 R-390A R-392/URR R-599A R648/ARR41 R-1530 Realistic RFL(prefi: RX-1 R&S EK-56 RX-50C	America M-Tech America M-Tech M-Tech America ix) KI ix) VHF Radi G.E.(St ne G.E. Hy Qu Mil. St Mil.	an Basic Engineerg an Basic Engineerg Engineerg an Basic Engineerg an Basic LM Elect. PL Comm. Enginrg io Shack/A urplus) .(Surplus) yGain uezar rake urplus urplus urplus urplus urplus urplus enwood urplus enwood urplus CALARIII ENGENEERIE EN	Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier Amp. Series Receiver Transceiver FM Series Receiver
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Model No./Nar	ne See	Type
S-125 Safari SB-1PA SB-50 SB-104 SB-230 SB-450TRC SC-ARPT-4	Hallicrafters Hallicrafters SBE SBE Heath Heath SBE Tr Standard etc. SBE SGC, Inc. SBE OOR Yaesu SBE Electrosonics Spectronics Standard Swan Swan Swan Swan Swan	Receiver Transceiver Amplifier Transceiver Amplifier Transceiver Amplifier Transceiver Repeater Transceiver Amplifier Receiver Radiotel. Amplifier Amplifier Amplifier Amplifier Amplifier Amplifier
T4XC T51G T51GGV T51GGV T53GGD T53GKT T-599A T-Comm TPL (prefi TPL-22OTR TR-22C TR-72 Triton I Triton II TS-520 TS-900 TX-144 TX-220	Motorola (Surplu Motorola (Surplu Motorola (Surplu Motorola (Surplu Kenwood Gen-Comm-Co.	s) Xcver s) Xcver
Ultracom-25	Unimetrics	Transceiver
W3470 W5570	Beltek Beltek	Transceiver Transceiver
X51GGS X53GKT X71GJT-1190B	Motorola (Surplu Motorola (Surplu Motorola (Surplu	s) Xcver
016 10DO2 25 30 40DO2 40D10 50K 50W 50WK 50WS 50WSK 51J-3 51J-4 70 70DO2 70D10 70D30 80A02 80A10 80A30 130A02 130A02 130A30	Clegg Tempo Dycomm Dycomm Tempo Tempo Matric	Repeater Amplifier Amplifier Amplifier Amplifier Amplifier Transmitter Transmitter Transmitter Transmitter Transmitter Transmitter Amplifier

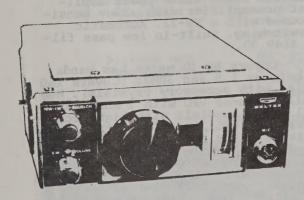
Model No./N	ame See	Type
300B	Swan	Transceiver
618T	Mil.Surplus	Transceiver
700CX	Swan	Transceiver
822 Kelvi	n Hughes (Surplus)	Transceiver
960A	Comtron (Surplus)	Transceiver
1001	Eddystone	Receiver
1230		Receiver
1401	Nems-Clarke (Surp	lus) Rcver
1402SM	Wilson	
3020A	ITT Mackay Marin	e Receiver
3021A	ITT Mackay Marin	e Receiver
6100	JM Communication	s Amplifier
13-500	Midland	Transceiver
13-505	Midland	Transceiver
13-509	Midland	
13-520	Midland	Transceiver
7776221-G7		X & TX Deck
7776221-G8	G.E. (Surplus) R	X & TX Deck



American Basic Corp. (Electronics Div.) VHF Class C Power Amplifiers: (1974) Series of 2 meter Class C amplifiers for CW and FM operation. Model P15A1: 0.5 to 2.5w RF input for 5 - 25w output 13.4V at 2 amps. \$59. Model P50A10 1.5 to 20w RF input for 8 - 65w output. 13.4v at 6 amps. \$98. Model P100A10:1.5 to 18w. RF input for 60 - 120w. output. Remote control available. 13.4v at 14 amps. \$198. Model P100A25: 15 to 30w. RF input for 75 - 110w. output. Remote control available. 13.4v at 14 amps. \$155. These amplifiers are designed by M-Tech Engineering and manufactured by American Basic Corp.



Atlas Radio, Inc. ATLAS 180 4-Band SSB Transceiver (1973) Solid state, covers 20, 40, 80 and 160 meters in 4 bands. 180 watts PEP SSB input and CW input. Unwanted sideband suppression 60db at 1000Hz and carrier suppression 50db below peak power. 18 transistors, 4 IC's, 14 diodes. Has internal speaker, 100kHz calibrator, S-meter, sideband selector switch. Operates 12-14 VDC. Modular construction, plug-in circuit boards for easy servicing. 3½x9½x8½"D., 7 lbs. Has full size knobs and dials. Sensitivity 0.25uv for 10db S+N/N ratio; selectivity provided by 5520kHz lattice filter with a 6db bandwidth of 2.7kHz and a shape factor of 1.7. Receiver and transmitter freq. control is provided by a highly stable VFO circuit with tuning dial calibrated in 5kHz increments. Tuning rate is 15kHz per revolution. Price class \$479. Accessories include AR-117 table tope 117-VAC P.S., mobile mounts.



Beltek Corp. Model W3470 Two Meter Transceiver (1974). Above average specs are claimed for this portable 2-meter rig. Only 12 crystals needed for 24 channels operation. 1/10w option switch, adjustable squelch, small size, nicad batteries. Model W5570: Uses TR-72 crystals for transmit & receive. 23 channels, 2 supplied(34/94, 94/94), 144-148MHz, 1/10w output pwr option switch, ceramic filter, sensitivity luv for 20db quieting, selectivity 20kHz at -6db, double conversion superhet. Uses FET, MOS FET all solid state circuitry. Dynamic PTT mic. (accessory) controlled. Operates 12VDC, 6-3/4x2-3/8x10". \$280. (Japan)



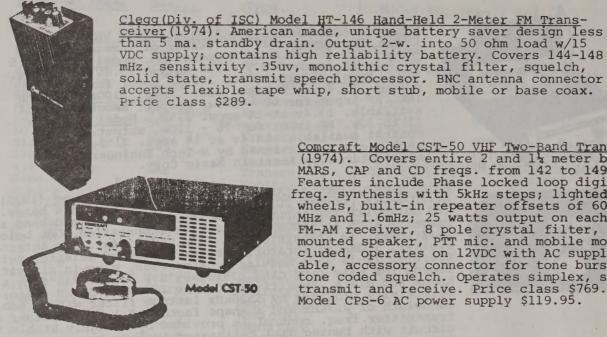
Clegg FM-21 FM Transceiver (1972). Features a unique triple-duty crystal feature(Crystal Saver Frequency Control) using just 1 crystal in any channel. 1 crystal gives you a separate transmit and receive frequency plus automatic 1.6MHz programming in the repeat mode. Sensitivity .25uv for 12db SI-NAD. Selectivity: Adjacent channel (40 KHz) down 50 db. Has noise activiated squelch, 1.5 watts audio to internal speaker, adjustable deviation ±0-7KHz, adjustable speech clipping. Covers 220 to 225MHz. Transmitter Power output 8-10 watts. Operates 12-14 VDC. 7x2-34x9"D. Monolithic Xtal filter. Price \$299.95



Clegg FM-27B 2-Meter FM Transceiver (1972). Tuning range 146 to 148MHz continuous with reset capability of approx. 1 KHz to any frequency in range. Power output 25 watts; P/A transistor protected for infinte VSWR. Receiver sensitivity .35uv for 20db quieting; .1 uv for reliable squelch action. Selectivity 11KHz at 3db down. Internal speaker. Uses 10 IC devices. Needs no additional crystals for full freq. coverage. Operates 12 to 14VDC, accessory p.s. and sub-audible tone on transmit available. Anti-theft mobile mtg bracket supplied. Combination S-meter/RF output meter. Modulation internally adjustable up to 10KHz deviation and up to 12db peak clipping. 73/8x3½x9½"D. 4 lbs. Price \$479.95.



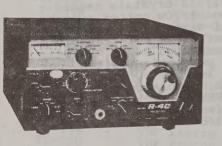
Cleqq Model 016 220 MHz Repeater (1974). A self-contained automatic radio relay station. Includes duplexer, will operate over an indefinte period because of quality construction is claimed. The price class is \$1000.



Comcraft Model CST-50 VHF Two-Band Transceiver (1974). Covers entire 2 and 12 meter bands & MARS, CAP and CD freqs. from 142 to 149.995mHz. Features include Phase locked loop distributions. freq. synthesis with 5kHz steps; lighted thumbwheels, built-in repeater offsets of 600kHz, 1 MHz and 1.6mHz; 25 watts output on each band; FM-AM receiver, 8 pole crystal filter, front mounted speaker, PTT mic. and mobile mount in-cluded, operates on 12VDC with AC supply avail-able, accessory connector for tone burst and tone coded squelch. Operates simplex, split transmit and receive. Price class \$769.95. Model CPS-6 AC power supply \$119.95.



Drake Model AA-22 Power Amplifier (1972) Covers 144-148mHz; RF output 25 watts at 13.8VDC. RF input .5 to 1 watt maximum. Operates 13.8VDC at 7 amps. 3-stage solid-state power amplifier and dual-green FET receiver presented with .25uv sensitive for 20-3 green the receiver presented and the tivity for 20db quieting when used with a TR-22. Automatic transmit-receive solid-state switching. Built-in low pass filter. 34x34x11"W. Price class \$149.95.



DRAKE R-4C Receiver (1973). Covers 80-10 meter ham bands plus any 15 500kHz ranges between 1.5 and 30MHz (Covers 160 meters, MARS, WWV, CB, Marine with accessory crystals). Has solid state linear permeability-tuned VFO with 1 KHz dial divisions. Gear driven dual circular dials with high mechandivisions. Gear driven dual circular dials with high mechanical, electrical and temperature stability. (Less than 100 Hz after warm-up). Sensitivity .25uv for 10db S+N/N all amateur bands. Selectivity: 2.4 kHz 8-pole filter provided in SSB, 8 kHz, 6 pole selectivity for AM. (Optional .25, .5, 1.5 and 6 kHz bandwidths available). USB, LSB, AM and CW on all bands. Transceive capability with T-4X, T-4XB or T-4XC Transmitters. Has AGC fast attack, two release times, breakin CW; crystal lattice filter in 1st IF, 25kHz calibrator, passband tuning, amplified AGC, main dial calibrated from 0 passband tuning, amplified AGC, main dial calibrated from 0 to 500 kHz in 1 kHz increments, S-meter, 2 watts audio output into 3.2 ohms, 3000 ohm output for anti-VOX. Operates from 120/240VAC. 51x10 /4x1158"D, 17 lbs. Price \$499.95. Options: Noise blanker, filters for CW, AM, RTTY selectivity.



DRAKE T-4XC Transmitter (1973). Covers 80-10 meter ham bands with crystals furnished. Covers 160 meters with accessory crystal. 4 500kHz ranges in addition plus one fixed frequency range switch-selected from front panel. Operates SSB, CW, AM, RTTY. Input power 200 watts PEP SSB and AM, 200 watts CW. Main dial calibrated 0 to 500 kHz in 1 kHz increments. Stability less than 100 hz after warmup. Gridblock CW keying. automatic transmit-receive switching. Sidetone monitoring. Controlled carrier AM. Sideband suppression 60db, carrier suppression 60db. Plate amps relative output meter. Vox or PTT operation. Adjustable pi network output. Spotting function. Transceives with R-4, R-4A, R-4B, R-4C and SPR-4 receivers. Switch selects receiver or transmitter. mitter PTO control. AGC prevents flattopping. Less power supply. 51x10/4x115/8. 14+ lbs. \$529.95. Accessory AC-4, DC-4 power supplies for use with the above T-4XC transmitter.



DRAKE TR-72 2-Meter FM Transceiver (1973). 23 channels completely solid state. 144-148MHz. Operates 12VDC. 10 watts or 1 watt selectable power output. Automatic VSWR protection. I watt selectable power output. Automatic VSWR protection. Frequency adjusting trimmers on every crystal. Adjustable deviation ±15kHz max., factory set to ±6kHz. Receiver:Xtal-controlled double conversion superhet, .35uv sensitivity for 20db quieting. Selectivity: 20kHz at -6db, adjacent channel rejection 80db down. 2 channels supplied(.52/.52 and .34/.94) Price: \$299.95 including dynamic mic., DC power cord, mobile mount and desk mount brackets, mic hanger, auxilliary connector, and 8 ohm external spkr plug. 7x2\frac{1}{2}x9\frac{1}{2}"D. 5 lbs. AC-10 115VAC Power Supply option \$39.95.



DRAKE TR-22C 2-Meter FM Transceiver (1973). 12 channels, 144-148MHz. Sensitivity .5uv for 20db quieting; selectivity 20kHz at 3db down; ±30kHz channel rejection 75db down. 1st IF 10.7mHz w/2-pole monolithic crystal filter., 2nd IF 455kHz w/ceramic filter. 1 watt audio output into 8 ohms. Xmtr power output 1 watt min. Deviation adjustable ±10kHz max, factory set to 6kHz. Operates 12VDC. Price \$229.95 including mic., overshoulder carrying case, 120VAC & 12VDC plug cords, 10 Nicad batteris, Speaker/Headphone plug. Accessories: MMK-22 Mobile Mount \$9.95; Crystals \$7.50 each (Note: 2 channels supplied: 146.52/94 R, .52/.34 T).



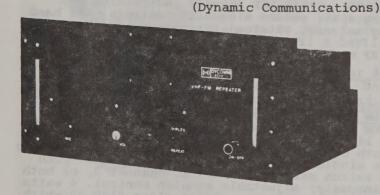
Drake Model DSR-2 Communications Receiver(1974). Continuous coverage 10kHz to 30mHz; digital synthesized freq. control; freq. displayed to 100 Hz; all solid state; AM, SSB, CW, RTTY, ISB; series balanced gate noise blanker. Sensitivity less than 4uv for 10db SINAD at 2.4kHz SSB, less than 2uv at 6kHz AM. Bandwidths of 6, 2.4, 1.2 and 0.4kHz; ALC; AGC. Operates 120/240 VAC 50-420Hz 35 watts. 51x 131x15"D. 17 lbs. Price class is \$2750.

Picture not available

DRC-KIT Model BX-1 Transmitter Kit(1974). 75 Watts CW on 80, 40, 20, and 15 meters. Crystal or VFO frequency control. 52 ohm pi-net output. Complete kit with all parts and simple to follow instructions \$59.95.

Picture not available

DRC-KIT Model RX-1 Receiver Kit(1974). Four transistors with .1 microvolt sensitivity. Vernier tuning of the complete 80, 40, 20 and 15 meter bands. 52 ohms input. Complete kit with all parts and instructions \$49.95.



(Dynamic Communications)

DYCOMM Echo III Rack Mounted Repeater - (1973). Self-contained receiver & transmitter with integral carrier operated switching(C.O.S.) circuitry (transistor C.O.R.) for repeater operation. Embodies a fully automatic MCW indentifier, timer function, built in 117VAC 60hz P.S. with automatic emergency switching to battery power maintained by an integral trickle charger. Auxiliary input/output connections are provided for PL, tone entry control, etc. Freq. range 140-175MHz, single channel, all solid state, no mechanical relays. Integral speaker, dynamic mic. included. Crystal filter front end on receiver for total selectivity better than 90db at ±30kHz. Sensitivity .4uv

for 20db quieting, .luv adjustable squelch threshold. Transmitter RF output 20 watts min., 25-30 watts typical. 16F3 Modulation, ±5kHz adjustable ±15kHz. Spurious, Harmonics 80dbm below carrier. Will adjust to drive 50 or 75 ohm load. Designed for freq. separation of 600 kHz. Local microphone permits use as a transceiver and control what is being repeated. Aluminum construction, 9½x19x12"D. 36 lbs. Meets new FCC specs. Complete - only antenna and Duplexer needed. DESENSITIZATION: Designed for frequency separation of 600kHz. When using 2 antennas, 50db of RF separation is sufficient for less than 3db of desense. When using one antenna with Duplexer, 70db of RF separation is sufficient isolation to operate with less than 2db of desense and at 90db of RF separation no desense is measureable. The ECHO III is a flat repeater, contributing less than 5% distortion from 300-3000 Hz. ECHO III Repeater price class \$949.



DYCOMM Super D 2M FM Amplifier (1973). 2-35W input gives 10 to 80 watts output. Use for 2M FM or Oscar CW. Freq. range 140-150MHz. VSWR 1:3:1 Max. Load VSWR. Requires 11-15VDC @.6 to 7A. Weight 2 lbs. 3x5x6". Reverse voltage protected. Dashboard control available. Fully automatic operation on command. 5MHz Bandwidth; harmonics at least 40db down. Price wired & tested \$149.95. Complete Kit \$49.95.

DYCOMM Super E 2M FM Amplifier(1974). Another "Super Brick" like the Super D model pictured and described above. SPECIFICATIONS: Covers 140-150mHz. Power output 40w. max. for a max. input of 3.5w. Input/output impedance 50 ohms. input VSWR 1:3:1 Max. Load VSWR: infinite. Power required: 11-15VDC @6 to 7A. 3x5x6". 2 lbs. Operates CW or FM modes. Uses 2N6084 final Xistor. Kit \$60. An 11db gain is a typical gain figure for the Super E amplifier.

DYCOMM Model DS	for	2-Meter FM:	80	watts	output	, 3.5	5db gai	in, pri	ice cla	iss \$139	
DVCOMM Model ES	for	2-Meter FM:	40	watt	output,	TIGE	gain,	price	Class	2112.	
DYCOMM Model 25	for	450mHz-UHF:	30	watt	output,	7db	gain,	price	class	\$107.	
DYCOMM Model 30	for	450mHz-UHF:	30	watt	output,	9db	qain,	price	Class	\$194.	
DVCOMM Model 70	for	450mHz-UHF:	70	watt	output,	6db	gain,	price	class	\$255.	

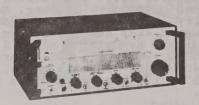


DYCOMM Model A4950 FM Amplifier for 6-Meter FM. 50 watts max. output; 10db typical gain, price class \$183.

DYCOMM Model A4960 FM Amplifier for 6-Meter FM. 50 watts max. output; 8db typical gain, price class \$192.



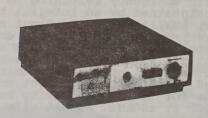
DYCOMM Model A8949 FM Amplifier for 6-Meter FM. 100 watts maximum output; 10db typical gain, price class \$270.



Eddystone (Great Britain) Model 1001 General Coverage Receiver. (1974). Covers 550kHz to 30mHz in 5 bands indicated on horizontal scale drum 6½" long plus a secondary scale used with a vernier dial for logging. Solid state devices including IC's and FET's used. Up to 10 xtal-tuned preselected frequencies can be selected for automatic tuning. Rechargable internal nicad or external 12VDC battery supply will work. Features include AGC, wide/narrow selectivity control, carrier-level S-meter, both coarse & fine tune knobs, illuminated dial light w/switch, 2 miniature spkrs, output for headphones, external spkr, tape recorder. A professional quality receiver, price class \$900.



Electra BEARCAT III VHF/UHF Scanner Monitor (1973). Monitor 8 crystal controlled channels in any one or 2 bands using changeable front end RF modules: L 29-54 MHz, H 146-174 MHz, U 440-470 MHz, T 470-512 MHz. Manual or scanner mode switch, each channel switchable out of scanner mode. Scan rate: 25 channels per second. 5 uv sensitivity. Has LED channel indicators, 3x5" front facing spkr, volume & squelch controls, all band telescoping antenna, external antenna jack, mobile mtg bracket, 117VAC & 12VDC power cords. 9x3-5/8x6-1/8"D. Price w/l RF module \$169.95. Add'l modules \$20 each.



Electrosonics Electro-Monitor 'SIMO' Simultaneous Multiple VHF/UHF Frequency Monitor Receiver (1974). Monitors any two frequencies simultaneously:VHF 25-54mHz; 140-180mHz; UHF 430-512mHz. Two at a time or hear both sides of a two-way communication. Features include single on-off volume control; triple push button switch selects channel 1, channel 2, or both simultaneously; adjustable squelch control, 4 watts peak audio output power. Price class \$149.95 which includes all crystals, carrying handle, antenna, AC cord.



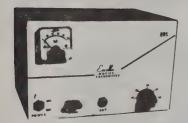
Emergency Beacon Corp. Model EBC-144 2-Meter FM Synthesized Transceiver (1973). Features a built-in scanning receiver to locate any frequency repeater active in the area. Operates FM, AM or Modulated CW. Has built in 120VAC & 12VDC power supply. Covers 143.5 to 148.5MHz in 5kHz increments. Autoscan in 5kHz steps; Synthesizer choice of ±600kHz,tlmc, simplex, frequency split, programmable non-standard split switch controlled. Receiver sensitivity .35uv for 12db SINAD on FM. Transmitter dual power output of 20 watts or 5 watts. Adjacent channel rejection 100db/30kHz; spurious and intermodulation image(EIA) 80db minimum; l0pole, l3kHz crystal filter. Has built-in tone burst and PL encoders and dcoders, touch-tone pad, full LED Digital readout, S-meter also serves as VSWR bridge, power output meter, battery indicator, deviation indicator and discrimination meter. Audio output 4 watts to built in left side of cabinet speaker for maximum mobile audibility. Headphone jack. Has independent selectable priority scanning channel, built in auto CQ. 4x8x10 D. 10 lbs. Freq. stability .0005%. Price \$995.





Emergency Beacon Corp. Model EBC-144-JR FM Transceiver (1974). Fully synthesized, covers 143.5 to 148.5mHz in 5kHz increments. Standard 600kHz offsets up or down automatically. Reverse simplex & freq. split allow totally independent receive and xmit frequencies, and a priority channel guard that switches you back to it as soon as a signal is detected. Features: Sensitivity .35uv for 12db SINAD, .3uv for 20db quieting; 20 watts output; intermodulation, spurious and image 60db minimum; 10 pole xtal filter; independent selectable priority channel; built in S-meter; built-in spkr. Operates 117VAC or 12VDC. Price class \$599.

Emergency Beacon Corp. Model EBC-7000 Synthesized Receiver (1974) Monitors 7000 channels from 140 to 175mHz. Easy to read thumbwheel switches set exact freq. down to 10kHz. For split freq. or off channel there is a variable ±5kHz fine tuning control. Tunable front end automatically changes as freq. is varied for .5uv sensitivity. Works on 12VDC or 117VAC, both cords supplied. Price class \$399.



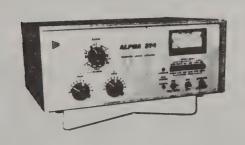
EXCELLO CW Novice Transmitter (ERL: Exceltronic Research Labs Inc.)(1973). 80 & 40 meters CW. Uses 5763 Osc, 6L6 Final amp. Includes 1 40 meter and 1 80 meter coil. Built in Power Supply. Less crystals and key. Price \$49.95. Has silk-screened panel, metal case.



EXCELLO EX20S Six Meter Transmitter (1973). 18 watts output on 6 meters. Uses 6U8 oscillator/multiplier, 12AX7 speech amplifier, 2E26 final amplifier, 6BQ5 modulator. Uses 8mc Xtals:8333-9000. Shielding and metal case for TVI reduction. American made. Silk screened panel. Complete with tubes, less power supply, \$49.95. AC Solid state power supply \$9.95. Base station or mobile use. AM phone mode.



EXCELLO Two Meter AM Phone Transmitter (1973). Either fixed or mobile. No TVI, enclosed in perforated steel case to prevent TVI and feedback. Uses 6BA8 Osc.-Mult, 6CX8 Final amp., 6AQ5 modulator, 12AX7 speech amp. Complete with tubes, less power supply \$59.95. Solid state power supply \$9.95. Has silk screened steel panel.



ETO (Ehrhorn Technological Operations, Inc.) Model ALPHA 374 Linear Amplifier (1974) Utilizes pretuned bandpass filters for each amateur band 80 through 10 meters for "Hands OFF no-tune-up" operation into any load close to 50 ohms resistive. (Manual tuning position also included for each band). Features include 3KW PEP SSB input; load VSWR 1.5:1 bandpass, 2:1 manually tuned. Uses 3 Eimac 8874 GG circuit, rear air intake and exhaust cooling ducted for low noise & heat, amplified ALC; Metering push-button selected Grid or plate current, HV, - PEPinput, Fwd or Rev RF powr. 2 LED drive - level indicators, Overdrive protection, plate overcurrent relay, line fuses, cover interlock. Operates 120/240V 50-60 Hz, 3 wire, 1 phase. Self-contained in extruded aluminum cabinet with folding tilt stand 7x17x13"D. 60 lbs. Price class \$1295.

ETO Model ALPHA 274 virtually identical to the 374 above except without bandpass feature and uses two 8874's employing a pi-L output network for 2KW PEP SSB input. Manual tuning and loading with bandswitching to cover the 80-10 meters. (Option PK-1 to add 3rd tube for 374 power rating \$100.) ALPHA 274 price \$995.

ETO Model ALPHA 74K is a new kit form ALPHA to be available Dec.,1974. Rated for continuous maximum legal power in all modes. Similar to above. Price class \$599.

(General Aviation Electronics) GENAVE GTX-2 2-Meter FM Transceiver(1972, modified 1973



to include a built in supersensitive Dual-Gate MOS FET pre-amplifier front end for better than .25 uv sensitivity). Mfg. by General Aviation Electronics, Inc. 30 W. output, all solid state, true FM, 3 pole low pass filter both transmit and receive. 1 watt low power position. Simple internal strapping provision allows multi-channel use of any crystal. Built in DC PS, 94/94 xtals supplied. 5 lbs, 9x6½x2½. Mic & mobile mtg. bracket included, price \$249.95. AC Power supply optional \$49.95. 10 channels, push-button freq. selection. Backlighted for night op.



GENAVE GTX-10 2-Meter FM Transceiver(1973). 10 watt output. Accomodates 10 channels, rotatable frequency selector. 3 pole low pass filter on both transmit & receive. 1 watt low power position. Provision for tone encoder. Internal strapping provisin allows multi-channel use of any crystal. 146.94/146.94 included. Mic. and mobile mtg. bracket included and has built in DC P.S. Can use Hampak (\$39.95) for portable operation. 9x6½x2½. Wt. 5 lbs. G-10 Glass Boards. Price \$199.95. AC Power Supply \$34.95.



GENAVE GTX-200 2-Meter FM Transceiver (1973). 30 watts output; accomodates 100 channel combinations; independent selection of transmit and receive frequencies; switch for pre-selected pairing. Includes a built-in Dual-Gate Mos FET preamplifiter front end for .25 uv sensitivity. Includes built in DC P.S., 146.94/146.94, microphone, and mtg. bracket. 3-pole low pass filter on both transmit & receive. Provision for tone encoder. Its price is \$259.95. AC Power Supply option \$49.95.



GENAVE GTX-100 1-1/4 Meter FM Transceiver (1974).
100 channels,12 watts output, independent selection of 10 Transmit & 10 Receive frequencies, switch for lock-in of pre-selected pairs, rear panel external speaker jack, backlighting, high sensitivity receiver preamp, 8-pole second IF filter, netting trimmer for each transmit crystal, single-circuit board design. Price class \$309.95 includes crystals for 223.5 MHz & power conserving 1 watt xmit switch.



GENAVE GTX-600 6-Meter FM Transceiver (1974). 100 possible combinations with independent selection of 10 Transmit & 10 Receive frequencies; 35 watts output; .25uv receiver sensitivity with receiver preamp built in; switch for lock-in of pre-selected pairs, rear panel external speaker jack, backlighting, 8-pole second IF filter, netting trimmer for each transmit crystal, single-circuit board design and special circuits to suppress TVI. Price class of \$309.95 includes national simplex 52.525 Xtals. Power conserving 1 watt xmit switch built in.



GENAVE Model Mobiline I VHF FM Two-Way Radio (1974). Accommodate 2 communications channels in the I43.9 to 173.4 MHz freq. range. Separate volume and squelch controls and transmit indicator light. .5uv receiver sensitivity and 25 watt power output. Price of \$320 includes plug-in mic. and anti-theft mobile mount.

GENAVE Model Mobiline II VHF FM Two-Way Radio (1974). Similar to the Mobiline I above but with additional circuitry for higher selectivity, inproved spurious response and superior adjacent channel rejection. Price class of the Mobiline II with plug-in mic. and anti-theft mounting bracket is \$340 including 1 channel. A base-station package includes 3db ant.& cable.

Options include a Mobilpack for portable operation at \$124.95; a desk-type mic. for \$34.95; a sub-aud-ible tone squelch called MobilGuard.(price inknown).



Gen-Com-Co T-COMM 2-Meter FM Transceiver (1973). 25 watts output, 100% solid state. 12 channel capability, comes with Xtals for 2 channels. Optional priority or non-priority scan and sensitivity of .5uv for 20db quieting. Operates 12VDC or with snap-on rechargeable battery pack which provides 25 w. output @10 - 10 - 80% duty cycle for 10 hours. 23/4 x 9½ x 11" D. Internal speaker. Price \$479.



Picture not available

GLADDING 220 FM Transceiver (1973). Mfg. by Pearce-Simpson. Has Hi-Lo power output selection, 6 channel capability with panel mounted selector switch, adjustable squelch, front mounted speaker. (Picture taken from front cover and limited information from page 1 of the May, 1973, "73" magazine.)

GLADDING 660 2-Meter Portable FM Transceiver (1973). Dual power output selection of 6 or 1 watt to conserve battery power. 6 channel capability. Front mounted speaker. Price \$200. (This limited information gleaned from a chart and article p. 59 & 60 of the April, 1973, "73" magazine.)



HALLICRAFTERS S-125 "Star-Quest II" Receiver (1973). All transistor AM Broadcast and General Coverage 550 kHz to 30 mHz receiver. 4 bands with 1 watt audio output, built in speaker, AGC, BFO, illuminated slide-rule dial, logging scale, bandspread, provision for direct operation from 12 VDC for portable use. Includes built-in 117VAC supply, external antenna. Price \$59.95.



Hallicrafters (now a Div. of Wilcox Electric, Inc.) Model FPM-300 Mark II "Safari" Transceiver (1974). Complete coverage 80-10 SSB & CW modes. A hybrid system of solid state and tube circuitry. Desk top or mobile station. Built in 117/234VAC and 12VDC power supplies. 250 watts PEP SSB, 180 w. CW power input. Has built in spkr, Vox, calibrator. FET front end and receiver sensitivity of i uv for 15db SN ratio. Power output 125 w. Nominal PEP into 50 ohms. CW sidetore, Break-in CW semiautomatic. AALC, AGC. 5\x12x11". 25 lbs. \$625.



HEATH GR-110 VHF Band-Scanning Monitor Receiver (1972). 8 crystal controlled channels selected by 8 push button switches to tune any selected 9MHz segment of 146-174 MHz range. Manual or automatic scanning with numerical readout. Channel lockout button. Priority channel in automatic mode. MOSFET front end for .5uv sensitivity for 20db quieting. Excellent selectivity -40db for 30 kHz channel spacing 2 watts audio to internal speaker w/jack for external spkr provided. Operates from built-in 117VAC or 12VDC battery source. Xtal osc/mixer signal source for easy adjustment. 3x8\frac{1}{2}x9\frac{3}{4}", 5\frac{1}{2} lbs. Kit \\$120.



HEATH HA-202 2-Meter Amplifier (1972). 40 watts out for 10 watts in; requires 12VDC; fully automatic operation with any 2-meter exciter delivering 5-15 watts drive. Solid-state, can be installed in trunk, under hood, dashboard. Efficient heat sink for high VSWR loads. Tuned input-output for low spurious output to cover the 1.5 mHz segment of the 2-meter band without periodic readjustment. Single printed circuit board. 3"x4½"x5½" D. Easily assembled Kit, Price \$69.95.



HEATHKIT HW-202 2-Meter FM Transceiver (1973). All solid state kit, 36 channel capability 143.9 to 148.3mHz range. Independent push-button selection of 6 Transmit and 6 Receive crystals. 10 watts output into an infinite VSWR. Optional tone burst encoder for front panel selection of 4 presettable tones available. Sensitivity .5uv for 15db of quieting. IF rejection -75db. 1st IF 10.7 mHz, 2nd IF 455 kHz(adjustable). Squelch threshold 3uv or less. Audio output 2 watts; built-in 4 ohm spkr. Operates 12.6 to 16VDC. 23/4x84x10"D. Kit includes 2 Xtals(146.94 simplex), push-to-talk mic, 12V cable, clips for use with temporary battery, antenna coax jack, gimbal bracket, & mobile mtg. plate. Kit \$179.95. ACCESSORIES: Kit HWA-202-2 Tone Burst Encoder, Kit HWA-202-1 AC Power Supply, Kit HWA-202-3 Mobile 2-meter antenna, kit HW-202-4 fixed 2 meter antenna.



Heath Model HA-201 2-Meter Amplifier (1974). Delivers 10 watts for a 1½ watt input, 8 watts for 1 watt input. Completely automatic, all solid-state transmit-receive switching, no relays. Will accept infinite VSWR load without failure. Tuned input and output for efficiency and reduced spurious emissions. Operates from any 12-16 VDC supply. Ideal for hand-helds. Kit price class \$26.



Heath Model SB-104 SSB Transceiver (1974). Completely solid state with over 275 solid-state devices including IC's. 4 final transistors protected from high SWR and thermal runaway Covers 3.5 thru 29.7 MHz amateur bands and 15 MHz WWV receive only. Totally broadbanded, switch from 3 to 30mHz without preselector, load or tune controls. Six digit readout with resolution down to 100 Hz on all bands. 100watt output with front-panel control to 1-watt for QRP. Distortion down 30db, carrier and unwanted sideband suppression down 55db. Highly selective crystal filter and sensitivity of 1 uv. Large VFO spinner with about 30kHz per revolution. Front panel controls include AGC (fast,slow,off), drive level, USB/LSB/CW push button, tune button for loading linear amps, pushbutton metering of DC input voltage, ALC action, relative output power. Built in VOX with gain and delay control. Operates 12VDC with back panel inputs and outputs including phone patch, separate Tx and Rx antennas, IF out, driver out, VFO in and out. 5-3/4x14½x 14"D. 20 lbs. Price class \$669.95. OPTIONAL EQUIPMENT: SBA-104-3 400Hz CW crystal filter \$34.95; SBA-104-1 Noise blanker \$24.95; SBA-104-2 mobile mount \$34.95; SB-604 Speaker \$30. HP-1144 Fixed-Station AC supply \$89.95; SB-644 Remote VFO for split operation \$119.95.



Heath SB-230 Linear Amplifier (1974). Puts out 1200 watts PEP and 1000 Watts CW from less than 100 watts input. Also rated at 400 watts input for Slow-Scan TV and RTTY. High efficiency Eimac 8873 triode, 3rd order distorition 30db down. Super quiet with massive heat sink, no fans. Single knob bandswitch, load and tune controls, metering for relative power, plate current, grid current and plate high voltage. Complete safety interlocks and fuses. Cabinet is styled to match the SB-104 above. Covers 80 through 10 meter bands. Power requirements: 120/240VAC 50/60 Hz. 14-3/4 x16"x7"H. 33½ lbs. Price class \$319.95.



HY-GAIN "Foot Warmer" 10 Meter Base Linear Amplifier (1973). Power output 150 watt carrier, 300 watts peak. I watt drive required to trigger antenna relay. Maximum drive: 5 watts unmodulated carrier and FM, 3.5 watts AM carrier, 14 watts PEP (AM peak). For AM, FM, CW, SSB and DSB signals. Selectable delay for automatic keying in 10 meter SSB service. Has built-in automatic antenna changeover relay, automatic RF sensing antenna switching. Impedance: 50 ohms input & output (unbalanced). Grid driven neutralized and stabilized tuned plate circuitry. With 117VAC power supply. 6x14x11½. 15 lbs. \$269.95. (Note: not legal on CB - exceeds FCC limits).



Hy-Gain Electronics Corp. Galaxy Model R-1530 Receiver (1974). Frequency range: 0.1 to 30 MHz continuous (.01 to .1 MHz with reduced sensitivity). Sensitivity 0.25uv for 10db S+S/N ratio SSB. Intermodulation distortion suppressed more than 70db. Selectivity switch selected .5 to 6.0 KHz; built-in pre-selector, S-meter, fast attack, slow release AVC switch selected, AM, USB, LSB, CW; BFO pitch variable, phone jack on front panel, front end overload protected.



INOUE ICOM IC-22 2 Meter FM Transceiver(1973). 22 channel capability (146.94/94, 34-94, 16-76, 76-76, 52-52 supplied). 10 watt mobile, operates 12VDC, optional 1 watt selection. Mosfet front end, .4uv/20db sensitivity, 5 helical resonators for selectivity. Large internal speaker. Trimmer caps all channels both trans. & recv, discriminator output jack. Separate light indicators on squelch break & xmit. 2 IF filters..intermodulation eliminated. RF metered. Green back lighted front panel. Included are a noise cancelling dynamic mike & quick disconnect mobile mount. \$289. Matching AC filtered, regulated power supply available. Compact 3/4x6x8½". Signal strength/output metered.



ICOM IC-30 FM Transceiver(1973). 450 MHz, 12 channels, 10 watts.



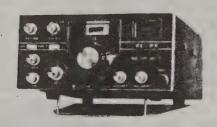
ICOM IC-60 6-Meter FM Transceiver(1973). 12 channel, 10 watts, MOSFET front end, .4uv/20db quieting sensitivity. 5 helical resonators coupled with 2 IF's to reduce intermodulation and cross channel interference. High/Low power option ,1 or 10 w. Trimmer caps on both Rx & Tx for on frequency accuracy. 5 channels supplied. Signal strength/output metered. Built in spkr. Operates 12VDC. Price class \$289.50.



ICOM IC-200A 2 Meter FM Transceiver(1973). Advertised as the "Ultimate Mobile Station This is a Synthesized 10 Watt Radio that you will be hearing lots more about in the next few months. Operating on 30KHZ channel spacing over the entire 146-148MHZ Two-Mtr Band". (Ed. Note: This seems to be the advance prototype version of the IC-230 pictured and described below)



INOUE ICOM IC-230 Synthesized 2 Meter FM Transceiver(1973). Over 162 channels, simplex or offset (600 kHz) for repeaters. Fully synthesized all channel capability. (A crystal may be added for a unique repeater frequency.) All modular construction. Superhot MOSFET/helical filter plus super E filter front end for .4uv/20db sensitivity, intermod elimination. Output approximately 10 watts. Compact 2\frac{1}{2}x6\frac{1}{4}x9-3/4"D, 5.5 lbs. Quick Dismount Mobile Mount. Operates 12VDC. \$447.50



ICOM IC-21A FM Transceiver (1974). 24 channel capability, with 7 channels supplied. Features include a MOSFET front end for better than 0.4uv sensitivity at 20db quieting, 5 HELICAL FILTERS eliminate intermodulation, built in AC and DC power supplies, modular construction, covers the 2-meter band. Also has front-panel control of power level, RIT and can use the new ICOM digital VFO, RF in/out and VSWR metering, a discriminator zero-center meter. Compact: 111 mmx230mmx260mm D. 117VAC and 12VDC operation. 24 channels (2 are priority). Price class \$450.

Picture not available

International Signal & Control Corp., ComData Division, 2 Meter FM Transmitter (1973) Single channel, Xtal controlled solid state FM transmitter Kit, built-in speech processing. A complete circuit board assembly 1½ oz., 3.75 cu. in. Output 200 MW into 50 ohms w/8.1 volt battery (operates on nominal 9 volt battery power). Current drain 70 ma. @8.1 V. Includes miniature crystal mic., technical data. Choice of 146.94, .34, or .16 Crystal included. Other Xtals \$2.95 each. Kit price \$39.95.



ITC(International Telecommunications Corp.) Model AR-2000 Receiver (1974). Completely solid state dual-channel communications rcvr with .15uv sensitivity at 10db S+N/N ratio and virtually interference proof selectivity. Modular construction, digital freq. readout, all bands 160-10m in 1 MHz ranges, 2 independent channes1 for dual receive, transceive plus receive or split-freq. operation, adjustable IF passband to within 100Hz, 16 pole filter for over 200db skirt selectivity (standard 2.1kHz with 1.4:1 shape factor, adjustable—Q and notch and peak filters, adjustable threshold noise blanker, RIT, other features. Price \$1250.

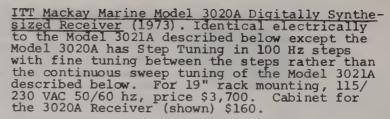
ITC Model AT-2000 Transmitter(1974). Matching unit to the AR-2000 above. Completely solid state, provides adjustable output from lW to 175W, requires no tuning, can be remotely operated by the AR-2000, has a built-in RF Speech Processor, VOX, Sidetone and Heavy Duty Power Supply. Price class \$945.



ITC Model Multi-2000 CW/SSB/FM Transceiver (1974). Fully solid state, modular construction, PLL synthesizer covers 144-148 MHz in 10 kHz steps; separate VXO and RIT for full between-channel tun-ing; simplex or ±600kHz offset for repeater operation; 3 selectable priority channels; NBFM and WBFM modes too; Selectable 1W or 10W output; has built-in AC and DC power supplies, noise-blanker squelch and RF gain control; separate S-meter &

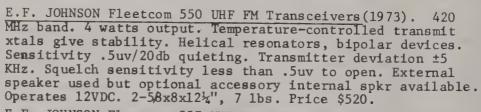
power, and freq. deviation meters; built in call tone(test) and touch-tone provision; sensitivity of .3uv for 12db SINAD; superior immunity to cross and intermodulation. Price class \$695.





ITT Mackay Marine Model 3021A Digitally Synthesized Receiver (1973). Marine & general coverage communications receiver 15 kHz to 30 mHz. Frequency injections by a phase-lock digital frequency synthesizer. Dual-rate continuously rotatable knob, six numeric LED readout display, USB, LSB, AM, CW, RTTY, and FAX modes. Tuning rate front panel switch selectable in either 100Hz or 100kHz ranges. Sensitivity .3 uv to .8uv; Selectivity switch selected 350Hz to 8kHz 6db down. Has fast or slow AGC, internal speaker, CW pitch control, 3.2 or 600 ohm audio output, phone jack, S-meter or audio output meter combination, preselector tenposition range switch with fine tuning, ant. attenuator, internal frequency calibration. Operates from 115/230 50/60 Hz single phase VAC. 5xx19"x17"D. 30 lbs. For rack mounting. Uses integrated circuits and easily serviced printed circuit boards. Price \$4,200. Cabinet for the 3021A(shown) \$160.

JM Communications Model 6100 6 Meter FM Amplifier(1973). 52 to 54 MHz, 15 to 35 watts input give 100 to 135 w. output. Ruggedized transistors, extra large heat sink, solid state antenna switching(no relays), Automatic T/R Switching, built in harmonic filter. Operates 13.6 volts with 10 to 15 amp drain. .5db insertion loss on receive. Complete with RF and DC cables \$199.95.



E.F. JOHNSON Fleetcom 557 UHF FM Transceiver(1973).(Identical to the 550 above except gives 10 watt output as a result of an amplifier between output of the vhf exciter and the input to the varactor tripler). No internal spkr can be mounted in the 557 as the space is used for this amplifier. Price \$635. Current drain at 13.8VDC is 3.5A on Xmit.



KENWOOD TS-900 SSB Transceiver(1972). Mostly solid state (3 tubes in Xmitter, final) using modular plug-in circuit boards. Covers 80-10 meters plus 15MHz WWV on receive. Power outputs: SSB 150 W., CW 125 w. FSK 50 w. nominal. Break-in CW with sidetone, 100KHz and 25KHz crystal oscillator, Receiver Incremental Tuming(RIT) ±2KHz; RTTY - built in freq. shift circuit for FSK operation; built-in noise blanker, Vox circuit with adjustable Vox gain & delay. Receiver sensitivity .5uv for 10db S+N/N ratio; Selectivity 2.2KHz 6db down for SSB & FSK, .5KHz with optional CW filter. 12½x5½x12½"D. Price less power supply \$745. Access.: PS-900 AC PS \$110; DS-900 DC PS \$130; Ext.Remote VFO \$195.



KENWOOD R-599A Receiver(1973). Solid state, full 10 through 160m coverage; CW,LSB,USB,AM, AM.N, FM reception. Selectable AGC slow or fast. Built in calibrator, monitor T-599A to calibrate transmitter. Squelch, 1 KHz freq. readout, smooth VFO action. Versatile cross channel operation with T-599A. Automatic or manual selectivity selection. Built-in SSB/8 pole, CW/8 pole and AM filters. RIT circuit with RIT tuming separate from RIT switch. Provision for installation of 2 and 6 meter converters. Built-in S-meter, WWV reception, 115/230VAC or 12 VDC operation. Sensitivity .5uv. Continuous RF gain control, noise blanker, easy read dial. Price \$439. S-599 Spkr \$18.



Mostly solid state(3 tubes in xmitter, final). Full metering ALC, Ip, RF output, high voltage. Operates CW, LSB, USB, AM. 1 KHz freq. readout, smoth easy VFO action. Built-in VOX with delay, sensitivity and anti-VOX adjustments. 200 watts PEP input nominal. Built-in: semi-automatic CW with sidetone, calibrator function when used with R-599A, stable, accurate VFO, ALC feedback, maximum TVI protection, cooling fan, tube saving Tune position, selectable low or high impedance mic.impedance. Front panel Mic gain control, CAR LEVEL control. Newchain drive and improved easy read dial. Built in power supply. \$459.



KENWOOD TS-520 Transceiver (1973). 5 Band 80 thru 10 meter transceiver for SSB or CW. Built in AC & 12VDC Power supply, Vox with adjustable gain, delay and anti-Vox; 1 KHz dial readout, FET linear VFO, noise blanker, RIT circuit and indicator light, 8 pole crystal filter, 25 KHz crystal oscillator Beak-in CW with sidetone, solid state except final section, cooling fan, built-in spkr, Tune position for increased tube life, full meter-ing, selectable SSB, selectable AGC, ALC, 4 channel fixed opration with indicator light. Rugged 6146 final tubes. Push button WWV recption. Price \$599. Accessories: VFO-520 ext. VFO, SP-520 ext. Spkr, CW-520 CW filter. Power input approx. 200 watts PEP SSB, 125 w. CW. Receiver sensitivity .5uv for 20db quieting. Carrying handle included.

KLM ELECTRONICS series of VHF FM Power Amplifiers (1973). All have these features: Solid state, no tuning, no damage at any VSWR, fixed tuned "Micro-Stripline" circuits for reliability and optimimum performance, automatic antenna switching with local or remote override, compatible with all popular FM transceivers, DC input 11.5 to 14.5VDC. Size approximately 6½x7½x2" (high power models slightly larger). Frequency, Power, Price below:



Frequency MHz	Model	Input Range (W)	Nominal Output (W)	Price
144	PA2-12B	1-4	12	\$ 39.95
	PA10-40B	5-15	40	. 79.95
	PA10-70B	5-15	70	129.95
	PA2-70B	1-4	70	149.95
	PA10-140B	5-15	140	179.95
	PA2-140B	1-4	140	199.95
. 220	PA10-60F	5-15	60	139.95
440	PA5-25C	4-8	25	129.95
	PA2-30C	1-4	30	149.95

New late 1973: 144MHz Model PA30-140B Amplifier, 15-40 W.input/140 W. out. \$169.95



Matric Model 50 ORP CW Transmitter (1974). Crystal controlled 15 watt input CW transmitter with full break-in keying, covers 160, 80, or 40M with the plug-in toroid coils and features zener-regulated chirpless keying and clean T-network RF output. Includes built-in 115VAC supply and antenna relay. Model 50K Basic Kit \$39.95; 50W Wired \$49.95; 50WS with Sidetone \$59.95; 50WK with Keyer \$69.95; 50WSK with Sidetone & Keyer \$79.95. Add-on options: Sidetone 200-21K \$5.95; Keyer 200-22K \$14.



MFJ Enterprises Model MFJ-40T ORP CW Transmitter (1974). No tuning required, 5 watts power input, clean output waveform with low harmonic content, Pi network matches 50 ohm load, power amplifier transistor protected against no loads and dead shorts, switch one of 3 crystals (2 inside cabinet) OR VFO input. Operates on 12V DC. Price class assembled and tested \$19.95. Optional accessories: MFJ-40V companion QRP VFO plugs directly into MFJ-40T \$19.95; MFJ-12DC AC P.S. \$19.95.



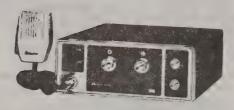
Midland Model 13-500 2-Meter VHF/FM Mobile Transceiver (1972). 12-Channel, 15 watt RF output power (with low-power position switch for 1-watt output included); FET front end w/high Q resonator filter, ceramic IF filters. Large illuminated S/RF meter. Variable squelch, ADL circuit maintains deviation level without distortion. Crystals supplied for .16-.76, .34-.94, and .94 simplex. Each R & T Xtal hs individual frequency trimmers. Operates 12VDC. Sharp selectivity and sensitivity. Dynamic mike and mounting hardware included. Price \$249.95.



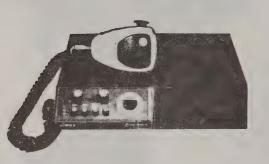
MIDLAND Model 13-509 220MHZ FM Mobile Transceiver(1973). 10 watt, 12 channel with crystals for 223MHz simplex. Has crystal triming capacitors on both transmit & receive, illuminated S-meter and RF monitor, 1 watt or 10 watt output switch, jack on back for tone burst, discriminator meter output. Operates on 12VDC. Has separate on-off switch from squelch or volume controls, remote speaker jack to use car speaker. Sharp selectivity and sensitive receiver. Microphone and mounting hardware included. \$209.95.



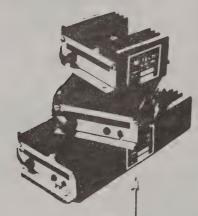
MIDLAND Model 13-520 2-Meter Hand-Held FM Walkie-Talkie (1973). 2-watt, automatic deviation control. 6-channel capability with crystals for .16/.76, .34/.94 and .94/.94 installed. High performance receiver with mechanical filters, IC and MOSFET front end. Fully solid state. Built-in battery/S-meter, spkr, mic. Compact 9x3x2" size. Has jacks for external spkr, mic., antenna and charge/power. Operates on 8 "AA" cells, nicad battery pack or AC optional power supply. Price with carrying case, less batteries, \$229.95. Includes adjustable squelch, telescoping whip antenna, on-off/volume, and 6-channel switch selector on the top.



Midland Electronics Co. Model 13-505 2-Meter FM Transceiver (1974). Covers 144-148 MHz in T2 channels, 30 watts output, all solid-state mobile with built-in DC P.S. Double 12-channel selectors give simultaneious or selective choice of xtal controlled TX and RX freqs. Dual power delivers 30 or 5 watts RF output and has automatic VSWR protection. Double meters - discriminator, and S/RF/SWR meter. Dynamic mike, accessory jack for tone pad, etc. External spkr jack, test position to monitor own signals. 9½x8½x3. Price class \$300 including cords, plgs, mic., mtg.brkt.



MOTOROLA Metrum II 2M FM Transceiver(1973). All solid state 12 channel capability. Requires only 1 crystal per channel. Repeater operation is accomplished by installing an optional Repeater Offset crystal. In Repeat mode, the transmitter frequency is shifted, which is accomplished by a switch that puts the unit from simplex to repeater mode. Sensitivity .35uv/20 db quieting (.25uv Sinad), intermod -50db, spurious and image rejection -65db. Selectivity 100db at 25 KC. Hi/10 switch reduces output to 1 watt. Has backlighted control panel, polarity and anthna mismatch protection built in. 5 watts audio power to built-in speaker. Operates on 12VDC. Microphone and mobile mount included. Two models: 10 watt model \$399.95, 25 watt model \$499.95. AC pwr supply \$150. 600KHz Repeater Offset Crystal \$13.50. Other xtals \$9. each.



M-Tech Engineering Series of Power Amplifiers (1974). Designed for hand held or low power units where 1 to 3 watts input will deliver 12 to 20 watts out. Other larger power units will deliver over 100 w. out with 20w. in. Features include: rated for key down continuous service; VSWR protected for any load; reverse current protection circuit; microstrip inductors for stability. All for 2-Meter FM and operate from 12VDC. 1 year warranty included.

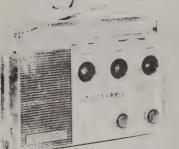
P15Al 1-3 w. in/12-20 w. out \$55 P50Alo 2-18 w. in/14-60 w. out \$98 P100Alo 2-12 w. in/40-110 w. out \$198 P100A20 18-25 w. in/90-120 w. out \$145



Pacificom Model 200 2-meter FM Transceiver (1974). Up to 6 channels, 2½ watts output, solid state, operates from internal batteries with signal sample power saving circuit or external 12VDC source, sensitivity of .3uv for 12db SINAD, adjacent channel rejection and spurious signal rejection 60db, dual purpose antenna, instantly converts from fixed mounting to portable. Price class \$249. Factory supplied w/146.94 simplex and .34/.94.



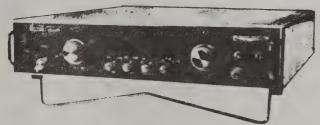
QUEZAR QC-210 2 Meter FM Amplifier(1973). All solid state RF power amplifier with a built-in regulated AC power supply. Will supply 13.6VDC for your transceiver under 110VAC operation and will run directly from your car battery for mobile operation. Over 10db power gain: 1 w in/12 w out with any of the "1 watt" transceivers. Has built-in automatic antenna switching and AC/DC onoff switch. \$69.95.



Radio Shack-Allied REALISTIC Patrolman-3 Portable Receiver (1972). Solid state, tunes AM Broadcast band, VHF 144-174 MHz and UHF 450-470 MHz. Separate control tunes AM. Has ajustable squelch on VHF and UHF. Telescoping swivel ant. Operates portable on 4 penlight batteries. Has built-in speaker; private earphone also included. 82x52x24". \$49.95 with 4 batteries. AC Adapter \$4.95.

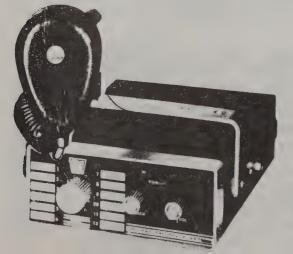


Radio Shack-Allied REALISTIC ASTRONAUT-5 Portable Receiver(1972). 5-Bands: AM Broadcast bnad, 6-18MHz Shortwave, 88-136MHz FM and Aircraft bands; 146-174MHz FM band. Has built-in AFC for no-drift FM. 35" telescoping antenna. Battery or AC operation. Built-in front speaker, also has a private earphone included. Hardwood case, aluminum handle. Solid state. Operates on 4 "C" batteries when portable. AM and FM reception. 1x3\frac{1}{2}x6\frac{3}{4}\frac{4}\text{". Shipg. wt. 7 lbs.} Price with batteries and AC power cord \$59.95.



RAYTHEON Model 1230 Digital Solid State Receiver (1972). A stand-alone receiver not intended for transceive or companion operation with any available transmitter, but does have remote muting. Covers 2 to 30 MHz in 4 bands. Sensitivity: (10db S+S/N).6 uv SSB, 2.5 uv AM. Modes: ISB, FSK, CW, AM, FM. Selecttable bandwidths 500Hz to 16 KHz. Stability ±1 Hz/day. Frequency readout 8-digit LED display. AGC constant within ± 3db, AGC time constant selectable from front panel. Internal speaker, 8 ohm external speaker output of 2 watts. For 110/

220VAC, 50 to 400Hz. 3½"x17"x18-3/4"D. 28 lbs. Rear panel has antenna input, AF outputs, power input, 1 MHz clock output, AFSK output. Received frequency display to the nearest Hertz on a digital counter. Dual rate tuning with tracked pre-selection on all bands. Built in phase-locked detector for AM, FM and FSK, dual-gate FET detector for SSB. 50db image rejection at 30MHz; I-F rejection over 80db. Price class \$3,930. ACCESSORIES: FSK Adaptor Kit \$545; Independent Sideband Adaptor \$670; Rack Mounting Adaptor \$145. (No matching transmitter planned for as of 3/1/73)

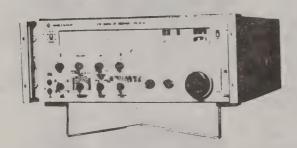


REGENCY HR-220 UHF FM Transceiver (1973). Freq. range 200-225 MHz. Receiver sensitivity .4uv/20db quieting; selectivity 6db down ±7 KHz, 55db down ±20 KHz. 12 channels crystal controlled. IF frequencies 10.7 MHz and 455 KHz. Transmitter output 10 watts with Hi-Lo power switch for 1 watt option. Deviation factory adjusted ±5 KHz. Individual trimmer capacitors for freq. netting. Operates on 12VDC and has noise operated squelch. 5 watts audio, internal speaker. Ceramic mike, dash mounting bracket andTR crystals for 223.50 included. \$239. 2½x5½x7½.



REGENCY HR-2B 2 Meter FM Transceiver (1973). Full 12 channel transmit and receive capability with individual trimmer capacitors. 15 watts power output with Hi-Lo power switch on panel. Receiver sensitivity .35uv/20db quieting; Selectivity 6db down ±7 KHz, 50db down ±20 KHz. Audio output 3 watts, internal 4 ohm speaker. IF frequencies 10.7 MHz and 455 KHz. Frequency range 144-148 MHz. Deviation factory adjusted to ±5 KHz; internal 0-10 KHz adjustment. Operates 12VDC. 146.94 crystalsinstalled in channel 1. Ceramic mike, mouting bracket also included. \$229. Uses 8mc crystals. Selectivity improved by addition of a series "E" filter in the IF for less cross-channel interference.

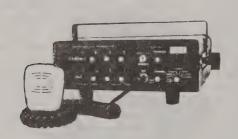
Requency Electronics Inc. Model HRT-2 2-Meter Narrow Band FM Transceiver (1974). 5 Channel, 2.2 watt or 1 watt Hi/Lo switch selected hand-held FM transceiver, high impact plastic case, collapsible whip antenna included. Receiver is dual conversion employing 2 IF filters, IC's, varactor modulator, band-pass circuitry for uniformity over the 144-148 MHz band it covers. Recvr sensitivity .4uv for 20db quieting, .12uv to open squelch. Operates 12-14VDC battery, not supplied. Transmitter deviation factory set at 5kHz, adjustable to 7kHz. Price class \$180. ACCESSORIES include"rubber ducky" ant., dual-rate battery charger, adapter for cigar lighter, external mic. and stand, leather case, earphone, belt clip.



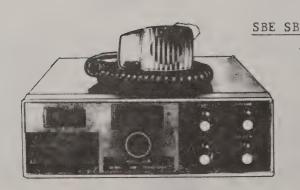
Rohde & Schwarz Model EK-56 Receiver(1974). Covers 10kHz to 30mHz. Features: electronically sweepable/computer controllable. The synthesizer gives 50Hz resolution in the 100kHz band with single knob tuning. large 80db dynamic signal handling capacity. Operating modes Al,A2,A3,A4,A3A,A3H and A3J. Selectable bandwidths between 75 Hz to 12kHz in 20 steps with constant slope. 5Hz/day stability.



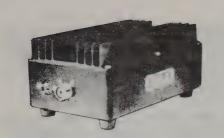
RMV ELECTRONICS 2 Meter FM Transmitter Kit (1973). 5 watts output from 13.6VDC power source, ±10 KHz deviation. Glass epoxy P.C. board, 16 transistors, 9 Diodes. Plug in crystals, separate oscillator for each frequency. 4 Frequency channels, each crystal controlled. Less Xtals and accessories, \$59.95 plus \$1.40 postage.



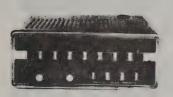
Satan Electronics, Inc. Model Brimstone 144 2M FM Transceiver(1974). Complete band coverage 144 to 147.99 MHz digitally dialed 10kHz steps. No crystals to buy. Completely independent transmit and receive freq. control, or simplex or repeat mode with the flip of a single switch! 25 watts RF output. Spurious output 80db down. .3uv sensitivity. Freq. generation by the Satan Electronics exclusive "Warlock" freq. control system. Dynamic mic. with push-button switch. Audio output 8 ohms with external speaker provision on back panel. 9½x10½x3¼", 8 lbs. Adujustable squelch. \$650. Options available: plug-in modules for Touch Tone, a dial tone burst(selectable), and subaudible tone. Operates on 12-13.6VDC. Ant.Impedance 50 0.



Transceiver (1972). No crystals - Synthesized freq. selection. Covers 50.05 to 50.280 MHz in 23 channels, spaced at 10KHz intervals. A Clarifier control allows the master Xtal freq. to be moved ±6KHz any 10KHz point. Receiver freq. is separately adjustable with RIT. High sensitivity. Uses SBE "Super Shape" Bandpass SSB filter for excellent SSB/AM response, both transmit and receive. Lighted meter shows "S" units on receive, power output SSB/AM on xmit. Has squelch and ANL. Power input 20 watts SSB PEP, 8 watts AM. Solid state, 12VDC operation. Dynamic mic. is included. Price \$339.95.



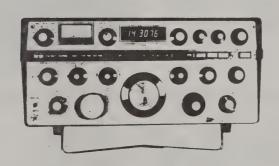
SBE SB-1PA VHF Power Amplifier (1972) - Solid State, 7090 watts output, class C, at 146MHz with FM exciters of
7 to 12 watts drive power. Operates from 12VDC. Built-in
automatic changeover relay. Broadband, operates over
entire 2-meter amateur band and MARS frequencies without
need for external controls. Designed for amplitudelimited FM or CW inputs for high efficiency class C mode.
Operating voltage 13.8VDC nominal. 7-3/8x4-3/4x3-1/8"H.
2 lbs. Price with 9' long fused cord, mounting straps,
\$189.95. (Case bottom tapped for 6-32 thread for feet
or bulkhead mounting if desired). Freq. range: 143-149MHz.



SBE Series of "Sentinel" Scanners covering 30 to 470 MHz (1973). Each has 8 channels for scanning, scanned continuously and sequentially; Priority channel which shifts to "assignment" when carrier appears on this most important channel; channel lock-out pushbottons, manual or automatic scan operation, AC-DC capability with cord/plugs supplied for either 12VDC or 115VAC operation, built in speaker with rear jack for external speaker, squelch, base or mobile operation. Also includes screw-in telescoping antenna. Sensitivity .3uv/20db quieting; selectivity -6db @9KHz, Audio output 4 watts. The Sentinel Models with frequencies they cover, and the price when known, are listed as follows: SENTINEL I 30-51 & 144-171 MHz \$169.95; SENTINEL II 144-171 MHz \$149.95; SENTINEL III Low Band VHF; SENTINEL V 450-470 MHz \$159.95; SENTINEL VI 144-171 & 450-470 MHz \$189.95.



SENTINEL VI 144-171 & 450-470 MHz \$189.95. All 2½x6x7½". 4 lbs. SBE SBE-450TRC "Cloverleaf" Transconverter (1973). Transmits an FM 450MHZ signal with a 2 Meter input. Feeding 10 watts of 2M power FM will produce 4 Watts output on 450 MHz via its varactor tripler. Works fine with SBE-144 or any 2M exciter when drive does not exceed 12 watts. The receiver section converts via a 300 MHz local oscillator with unity conversion gain that converts 450MHz band signals to I-F frequencies corresponding to 144MHz channels. Limiter, discriminator, output audio and loud speaker in the 2 meter transceiver continue to function. Draws no current on transmit, negligible current on receive. Compact box that can mount in small space. \$179.95. No mods necessary to your existing 144MHz transceiver.



Signal/One Model CX-11 Deluxe Integrated Station (1974). Solid State Broad Band Final with 175 watts output, covers 10 to 160 meters, no tuning required, will operate into any SWR, continuous duty at full rated output. Features include: new concept front-end design utilizing double active balanced mixers for unmatched sensitivity, blocking and cross-modulation rejection. Solid-state modular construction, gold plated pins & plug-in sockets for all transistors, IC's, and circuit board connectors. 5 bandwidths 2.4,1.5, 1.0, .4, and .1 kHz plus peak not filter with adjustable freq. notch depth and bandwidth controls. RTTY narrow and wide shift FSK-LSB. Built-in electronic keyer with independent speed and weight con-

trol and partial or full dot memory. New six digit freq. counter, dual VFO's for split operation, receive or transmit offset tuning, instantaneous break-in CW, built-in wattmeter, noise blanker, adjustable RF power output, adjustable RF clipping, adjustable IF shift. 12VDC, 115, 230V AC power supply internally short circuit proof with thermal shut off, current overload IC protected. Price \$2600.



SPECTRONICS SPEC-2 Synthesized 2 Meter FM Transceiver (1973). Covers 144 - 147.99 MHz. Combines RP synthesizer with all Motorola receiver and transmitter components. 2 Watts output on transmit, .2uv recvr sensitivity. Built-in speaker, squelch, operates simplex or repeater by panel mounted switch. #489.00



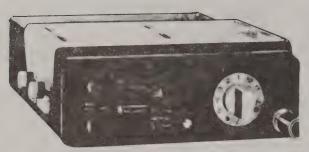
SPECTRONICS 450 MHz Power Amplifier Deck (1973). UHF shoes providing 4 watts out for 3/4 watt drive. Ready to install in hand held unit. Less drive limiter. \$10.



Spectronics Model Cobra 200 VHF FM Transceiver (1974). Covers 220-225 MHz range, 10 Watts & 1 Watt selective outputs for battery conservation, 12 channels with 233.5 simplex crystals supplied, receiver sensitivity of less than .5uv. Has accessory jack for tone input and discriminator output. Price class \$229.



Spectrum Communications Model Spec Comm 560 2M FM'"Expandable" Transceiver (1974). 6 Channels with 146.52 xtals included, 5 watts RF output, excellent quality modulation, electronic T/R switching, compact modules provide expandable capability (future modification kits to expand to 12 channels, a companion synthesizer, and external mobile/fixed speaker are planned). Rcvr sensitivity .6uv for 20db quieting, 14 kHz bandwidth, 6 pole xtal filter, balanced mixer, built in 3" spkr, operates 12VDC mobile, fixed, or "over the shoulder". 2½x6x8. \$149.95. OPTIONAL "Clip-on" ACCESSORIES: BP-1 rechargeable 1.2AH battery module, carrying strap, 18" antenna, & charger \$55.95; BA-1 25 Watt amplifier and lo-noise rcvr preamp module \$79.95; AC-1 AC Power Supply module \$44.95. MB-1 mobile mounting bracket \$7.95. (Accessories shown left)



STANDARD SR-C220 Solid State 220 MHz Transceiver (1972) - All solid state. Features exclusive "Astropoint" design for selectivity and interference rejection. 10 watts FM output, 12 channels. Easy crystal access thru snap open trap door. Provision for tone coded squelch (CTCSS) and external oscillator. Microphone, mounting bracket, and xtals for 4 channels included.



STANDARD SC-ARPT-4 FM 220 MHz Repeater (1972) All solid state. 10 watts output. Carrier operated relay. Adjustable carrier delay and time out timers. Provision for tone squelch (C.T.C.S.S.) I.D. and remote control inputs.



SWAN SS-15, SS-100, SS-200 Series SSB/CW Transceivers (1972). Completely solid state, each covers 80 thru 10 meters plus WWV on 10m. USB/LSB/semi-CW break-in and sidetone monitor. Vox with variable control, noise blanker with threshold control, anti-trip and delay controls, 25kHz crystal calibrator, IF derived AGC with fast attack, controlled decay, excellent sensitivity and selectivity are claimed. 2.7kHz crystal lattice filter with 1.7 shape factor. Broadband circuits eliminate transmitter tuning. Sideband suppression 50db, carrier suppression 60db. Each operates from 12VDC using FET's, IC's, and Operational Amplifiers. POWER OUTPUTS AND PRICES: SS-15: 15 watts PEP \$579; SS-100: 100 watts PEP \$699; SS-200: 200 watts PEP \$779. ACCESSORIES: PS-10:115v AC p.s. for SS-15/SS-100; PS-20 115v AC p.s. for SS-15/SS-100/SS-200; SS-1200 1200 w. PEP Linear Amp.; SS-208 external VFO; 610X Crystal Controlled Oscillator; SS-16B Super Selective IF Filter. Used mobile or fixed station. Has infinite VSWR protection.



SWAN Solid State MONOBANDERS: MB-40 and MB-80 (1973). MB-40(7 to 7.3mHz) and MB-80(3.5 to 4mHz) operate SSB and CW modes. 15 watt PEP input. Use FET's, IC's, Operational Amplifiers, no tubes. Smeter with light emitting diode activated when transmitting. Infinite protection from VSWR damage. ALC, smooth AGC, no transmitter tuning. Built-in speaker. Front end overload, distortion and cross-modulation virtually eliminated. Price of either unit \$249.95. ACCESSORIES include Swan MB100(100 watt PEP solid-state Amplifier usable 30 to 30mHz with appropriate filter, one provided, specify band); Swan MB200(200 watt PEP solid-state Amplifier usable 3 to 30mHz with appropriate filter, one provided; (additional plug-in filters available for MB100 or MB200); Swan BMT mobile mount, Swan 404 mic. MONOBANDERS operate from 12VDC.

NOTE: Late 1973 Swan Ads claim a 50 Watt PEP input power rating for the MB-40 and MB-80 SSB MONOBANDER Mobile Transceivers.













SWAN FM-2XA 2 Meter FM Transceiver (1973). 12 channels from 144-148mHz. 10 watts RF power. Operates directly from 12VDC battery system. Has MOS FET front end substantially eliminating cross modulation and overloading, infinite VSWR protection. Dynamic mic. and all necessary cables & connectors included. Receiver sensitivity .5uv/20db quieting. Transmit freq. deviation factory set ±5kc, adjustable ±15kc. \$279.95. 84x7x3"H, 84 lbs. 3db gain roof or deck mount whip antenna available.

SWAN 300B "Cygnet de novo" 5-Band SSB/CW Transceiver (1973). Covers 80-10 meters in 5 bands. 300 watts PEP, operates 117VAC with built-in power supply. Has CW sidetone with CW break-in with optional VOX unit capability. Has built-in speaker, AGC, ALC, Smeter. Excellent sensitivity and selectivity are claimed. Weighs 25 lbs for portability. Price \$499.95. ACCESSORIES: VX-2 VOX, Swan 14-A DC converter for mobile operation on 12VDC.

SWAN 700CX CHAMPION SSB 5-Band Transceiver (1973). Covers 3 to 30mHz in 5 bands. SSB, CW, AM Modes. 700 watts PEP power input. Has amplified Automatic Level Control(ALC), fast attack AGC with controlled decay, dual ratio planetary tuning, stepp skirted 5.5 MHz crystal IF filter, full 2.7kHz bandwidth, product detector. on SSB, diode on AM. Transmitter suppresses unwanted sideband 50 db, carrier down 60db. 3rd order distorition down 30db. Has CW Sidetone, selectable sideband, wide-range "Pi" antenna coupler. Less power supply and speaker \$569.95. ACCESSORIES: Swan 117XC matching AC power supply and speaker; Swan 14-117 DC power supply, Swan FP-1 phone patch.

SWAN Solid State MONOBANDERS: MB-80A(80 meters), MB-40A(40 meters), MB-20A(20 meters) SSB/CW Transceivers(Late 1973). New 100 Watt PEP/SSB input power rating, approx. 60 watts key-down CW. Operate directly from 12VDC. No tune up time required. Infinite VSWR protection, bandpass coupling to antenna, built in speaker, Transmit ALC, smooth AGC, front end overload, distortion and cross modulation virtually end overload, distortion and cross modulation virtually eliminated, S-meter. Uses FET's, IC's, no tubes. Light emitting diode activated on S-meter when transmitting. 3x 81x9"D. Price (mike not included) any model \$299.95.

SWAN Model SS-200A SSB Transceiver (1974). Fully solid-state, 300 watts PEP input on SSB, no tuning broad-band circuits on 10-80 meters. Infinite USER protection ite VSWR protection, variable VOX gain, variable threshold noise blanker, semi-breakin CW with CW monitor, 25kHz calibrator, controlled AGC, operates 13.5VDC with .5 amps current drain in receive mode. Price class \$799.95. ACCESSORIES: PS-20 AC P.S., 610X Xtal osc., SS-208 VFO, SS-MTK mobile mount, SS-GMTK gimbal mount.



Tekpro Design Systems Solid State 2M Amplifier (1974). Has 50 ohms input and output; 1-3 watts input, 10 watts out; automatic solid state switching. Operates 12VDC. Price class assembled, tested, with case \$39.95.



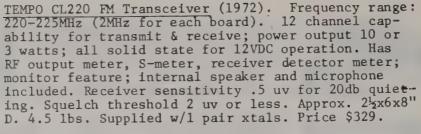
TEMPO fmv2 FM 2-Meter Solid State Transceiver(1972). Covers any 2 MHz in the 146-148 MHz range. 11 channel capability. Separate switchable transmit/receive sections for 121 possible combinations. 10 watts output. Combination RF output, S-meter, battery condition meter. AFC on receive, internal speaker. Operates on 12VDC, provisions for accessory AC supply. 25 kHz channel spacing. Receiver sensitivity .5 uv for 20db quieting. Squelch control. 2½x6x9½"D. 4.5 lbs. Price w/l pair xtals, heavy duty power cord, mtg bracket \$199.



TEMPO FMH 2-Meter FM Hand Held Transceiver (1972). 6 channel capability, any 2 MHz in the 144-148 MHz range. Xtal controlled R and T. All solid state. 2 watts output. Receiver sensitivity .5 uv for 20db quieting. Dual conversion superhet. Built-in charging terminals for nicad cells, S-meter/battery level meter; telescoping whip antenna, internal spkr and internal mic. Spurious and harmonic radiation 60db below carrier. Deviation internally adjustable ±15 kHz. Operates 12VDC. Squelch threshold .2 uv nominal. Selectivity 6 kHz at -6db. 82x3x2"D. 1.7 lbs with batteries. Supplied w/l pair T and R Xtals for 146.52 simplex. Price: \$189.







TEMPO CL 146 VHF Transceiver (1972) - Frequency range: 146-148 MHz FM. 12 channel capability for transmit and receive. Power output selective: 10 watts or 3 watts. Includes audio limiter to assure constant deviation; instantaneous impulse squelch. Has internal speaker. Price with microphone, power cord for 12VDC operation, mounting bracket and one pair of crystals is \$279. (Shown with optional AC power supply/speaker for base operation).

Tempo Solid State VHF/UHF Power Amplifiers (1974).

VHF (135 to 175 MHz)		UHF (400 to 512 MHz)				
Model No. Driv 130A02 2 130A10 10 130A30 30 80A02 2 80A10 10	e Power Output W 130W W 130W IW 130W W 80W W 80W	Price \$199 \$179 \$189 \$169 . \$149 \$159	Model No. 70D02 70D10 70D30 40D02 40D10 10D02	Drive Power 2W 10W 30W 2W 10W 2W	Output 70W 70W 70W 40W 40W 10W	Price \$270 \$250 \$210 \$180 \$145 \$125

(TPL Communications, Inc.) TPL 5010 and TPL 5010B(Bi-Linear) "Battery Saver" Power Amplifiers (1973). All solid state for SSB, AM, FM modes. Frequency coverage 14 to 30 MHz. 60 watts output AM, 100 watts FM, 120 watts SSB. Input watts 2 to 10 watts. Low stand-by current(5 ma) & low transmit current(12 amps) to save battery. Operates from 12VDC. May be mounted in trunk, under seat, anywhere. No external cooling required. Price class \$169. Available accessories include an AC power supply, a control head that measures RF power output, DC voltage, and turns the amplifier on or off remotely, and a trunk mounting kit. Also a low noise receiver pre-amplifier using a MOS FET Xistor.

> ADDITIONAL TPL SOLID STATE POWER AMPLIFIERS MARKETED Late 1972 and 1973 similar to the power amplifier model at left.

			•	
Part No.	Band	Power In	Power Out	Price
TPL 1006 152 242-A2 302 302B 1202B 522 300 300B 600 600B	6M 2M 2M 2M 2M 2M 2M 220MHZ 440MHZ 440MHZ 440MHZ	10 w. 1 w. 1-2.5 w. 1 w. 1-2.5 w. 1 w. 10 w. 4 w. 1 w. 4 w. 1 w.	110 w. 12 w. 25-30 w. 30 w. 30-35 w. 120 w. 45 W. 25 W. 25 w. 60 w.	\$185. 59. 85. 93. 99. \$239. 200. \$162. 190. 245. 278.

PART NO.	INPUT POWER	OUTPUT POWER	FREQUENCY RANGE	PART NO.	INPUT POWER	OUTPUT POWER	FREQUENCY RANGE
PA3-1AE	50-250mw	15-25W	136-175MHz	PA3-1DD	5- 15W	60-80W	136-175MHz
PA3-1AB	.75-3W	20-25W	11	PA3-1EE	50-250mw	80-120W	**
PA3-1EC	50-150mw	30-50W	F1	PA3-1AE	.75-3W	80-120W	17
PA3-1AC	1-5W	35-50W	**	PA3-1DE	5-15W	80-120W	*1
PA3-1DC	6-15W	30-55W		PA6-1DE	1-4W	20-30W	400-512MHz
PA3-1ED	50-250mw	60-80W	**	PA6-1AD	4-10W	25-35W	**



TPL Communications, Inc. Model TPL-220 Transceiver (1974). This a prototype model shown at the Dayton Hamvention of the 220 MHz TPL transceiver. It is said to have a tunable receiver so the whole band can be tuned, in addition to crystal FM channels.



TEN-TEC "Triton I" & "Triton II" 5-Band SSB/CW Solid-State Transceivers (1973) Features the same except Triton I has 100 watts input, and Triton II has 200 watts PEP SSB input to the transmitter final. No tubes, covers 80 thru a full 10 meters, bandswitch band selection, full power ratings for RTTY or SSTV. Operates 12VDC for lightweight mobile or base with optional AC power supply. Amplified ALC for full speech power without splatter. Waveshaped CW, instant break-in lets you monitor freq. while transmitting. Illuminated dial, plug-in circuit boards, offset tuning, built-in SWR bridge, speaker, crystal calibrator, direct frequency readout, S-meter, WWV, nap-up anti-parralelax front feet. Triton I \$519, Triton II \$606. Model 251 AC P.S. for Triton I \$69, Model 252 AC PS. for II \$89.



UNIMETRICS Ultracom-25 2-Meter FM Transceiver (1973). 12 crystal controlled channels 144-148 MHZ FM. Dualgate FET dual conversion superhet receiver. Sensitivity .5uv/20db quieting. Adjacent channel selectivity of -60db. audio output 4 watts into built-in 4 ohm speaker. 25 watts transmitter RF power output; spurious emission -60db below carrier. Adjustable squelch and combination RF Power/S-meter. Supplied with 4 sets of crystals. Built-in 12VDC power supply. Handheld mike & mtg. bracket, DC cable, PL-259 antenna connector & external spkr jack included. 9x8x2½"H. All solid state. \$199.95. Optional AC power supply \$29.95; Touch-Tone encoder \$44.50; Mobile Antenna \$17.95; Add'l crystal certificates \$4.95 each.



VHF ENGINEERING RX-144A 2 Meter FM Modular Receiver Kit (1972) (Modified 1973). Better than .3uv sensitivity. Sensitive noise operated squelch. 15 KHz bandwidth. One watt audio output. Dual conversion 10.7 MHz and 455 KHz IF's. Mostly IC except front end. Standard 45 MHz crystal. Operates from 12VDC. Complete with drilled board. 4x6". Low cross modulation front end. COR output for control. Price \$59.95 plus \$1 postage & handling.

RX-220A Same as above but for 220MHz band \$59.95 + \$1 p.

RX-144F Same as RX-144A above except with a 7 KHz ceramic filter \$69.95 + \$1 postage.

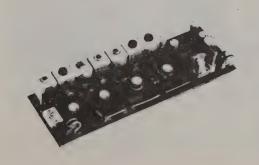
RX-220F Same as above except for 220MHz with a 7 KHz ceramic filter \$69.95 + \$1 postage.

RX-144C Same as RX-144A above except with a 10.7 MHz crystal filter \$69.95 + \$1 postage.

RX-220C Same as above except for 220MHz with 10.7 MHz crystal filter \$69.95 + \$1 post.

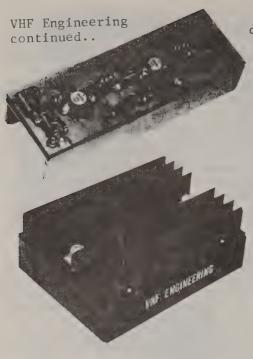
Additional Item available: RX-50C 30-60 MHz Receiver Kit w/crystal filter \$59.95

VHF 10-Channel Auto Scan Receiver (1974). Utilizes the VHF Engineering SC-1 Scanner Kit & CD-1 Xtal Deck. Kit \$81.85.



TX-144 2 Meter FM Transmitter (1972). 1 watt output exciter, uses 4 RF transistors, 2 diodes, 1 integrated circuit. Operates 12VDC, adjustable deviations to 10 KHz, audio clipping and active filter, crystal netting trimmer, double tuned RF stages, standard 12 MHz(14 for 220) crystals, zener regulated oscillator, provisions for metering each stage, predrilled and tinned glass circuit boards, 2x6". Can be followed with a PA 144 or 220 amplifier for a 15 watt station. With drilled board \$29.95 (A lower price than earlier models) +\$1 postage.

TX-220 Same as above for 220MHz FM. \$29.95 + \$1 postage



PA-144 2 Meter 15 Watt Power Amplifier (1973). 1 w. of drive gives 15 to 20 watts output. Uses 2 balanced emitter RF power transistors able to withstand a high SWR. Draws 3 amps from 12-14VDC neg. ground supply. Complete with circuit board and aluminum heat sink. (Less minibox and relay). \$29.95 + \$1 postage.

PA-220 Same as above for 220MHz FM. \$29.95 + \$1 postage

NOTE: A completely packaged PA-144 or PA-220 with solid state switching, minibox, $6\frac{1}{2}x2-5/8x2$ w/PL-259s \$49.95 ea.

PA-8005H 60-90 Watt Power Boosters (1973). Completely wired & tested with automatic antenna switching. Uses balance emitter power transistors for missload protection. Large heat sink. Less than 1db insertion loss on receive, SO 239 connectors, 50 ohm impedance. 2-6 watt drive gives 60-90 watts output from your standard exciter or transceiver. \$159.95 Size $7 \times 9 \times 3-1/2"H$.

PA-8020H Similar to above for use with Regency or similar transceivers. 10-25 watts in / 60-90 watts out. (Increase power of Regency etc. 400%). \$129.95.

PA-110/30 (1973). Similar to PA-8005H above for use with Clegg or similar transceivers. 50 to 110 watts out with 10 to 30 watts input. \$149.95 wired & tested.



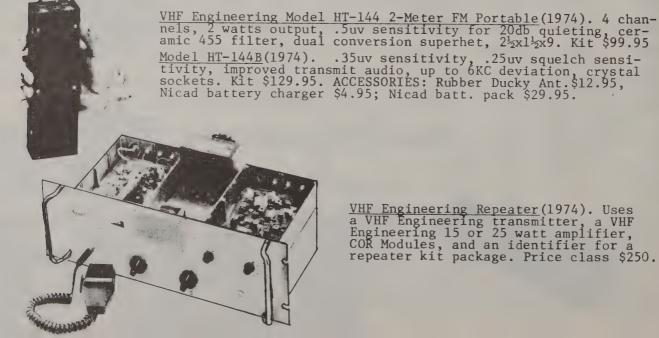
VHF 2-Meter Amplifiers (1973). Operate From 12-14VDC neg. grd. Less than 1db loss on receive. Solid state automatic switching. 2x2½x6". 144-146mHz range.

PA-1501H 15-20 watts out with 1-2 watts in. Complete kit \$39.95; Wired & Tested \$49.95.

PA-2501H 25-30 watts out with 1-2 watts in. Complete kit \$59.95; Wired & Tested \$69.95.

A Chart showing a few new VHF Engineering amplifiers and the 1974 prices.

MODEL	PW IN	PW OUT	KIT PRICE	WIRED & TESTED PRICE
PA-1202-H PA-1501-H PA-2501-H PA-4010-H PA-110/30 PA-110/10	1·3 1/2·1 1·4 5·12 15·40 3·12	12 15 25 40 110	\$39.95 \$49.95 \$59.95 \$59.95 N.A. N.A.	\$49.95 \$64.95 \$74.95 \$74.95 \$149.95 \$179.95
PA-144/15 PA-144/25 PA-220/15	1/2·1 1·4 1/2·1	15 25 15	\$39.95 \$49.95 \$39.95	NOTE: Less Case and Switching.



<u>VHF Engineering Repeater</u>(1974). Uses a VHF Engineering transmitter, a VHF Engineering 15 or 25 watt amplifier, COR Modules, and an identifier for a repeater kit package. Price class \$250.

Vibratrol (Div. of EGI Electronics Group, Inc.)

2-Meter Amplifiers (1974). High and Low Power Models for AM/FM/CW/SSB Mobile or Base. All will operate with reduced output from 1 w. Drive. Supplied pretuned for portion of band in which they are to be used. Delayed dropout available for SSB or CW Use for \$5 additional to the prices shown.

- 2½"H x 4"W x 4"D
- * 2½"H × 4"W x 7"D
- * 2½"H x 4"W x 9"D

Model	Drive	Output	Price
RFL-301	3W	40W	\$ 99.95
RFL-401*	3W	60W	149.95
RFL-501*	3W	110W	199.95
RFL-701*	10W	75W	99.95
RFL-801*	10W	100W	149.95
RFL-901*	10W	150W	199.95
RFL-1101 [‡]	25W	150W	229.95
RFL-1201 [♯]	25W	200W	299.95
RFL-1301 [☆]	3W	200W	349.95
RFL-1401*	1W	75W	179.95



Wilson Electronics Model 1402SM 2-Meter FM Transceiver (1974). 6 Channel operation w/trimmers on all TX and RX Xtals. All Xtals plug-in. 2.3 watts output, .3 microvolt sensitivy for 20db quieting, 10.7 and 455 KC IF ceramic filters, covers 140-150mHz (2mHz spread): audio: output 500my. Spread (hettory indicates) spread); audio: output 500mv; S-meter/battery indicator; microswitch mike button, 8-7/8x1-7/8x2-7/8". Price class \$199.95 includes Rubber Flex antenna, set Nicad batteries, leather case, 3 sets xtals: 16/76, 34/94, 94/94. ACCESSORIES: 1410A(shown) is a 12 watt power amplifier, steel case, charges 1402SM when plugged into cigarette lighter, \$99; SM1 Spkr/mike(shown) \$24. LCL Leather case \$12; BC1 Battery charger \$29.95.

NOTE: YAESU MUSEN Model FRdx-400SD is similar to the FRdx-400 described in Vol. I but includes 2-meter and 6-meter reception capability. Price class \$399.

NOTE: Some YAESU MUSEN Model FT-101 Transceivers included 160 meters early 1973.



YAESU FT-101B SSB/CW/AM Transceiver (1973). Up-dated version of the FT-101 with these added features: VFO (warning lite) on or off; Clarifier(warning light) on or off; Noise blanker on insert card; 8 pole filter for better rejection; Sidetone output; Antitrip input. Covers 160 thru 10 meters, Citizen Band, WWV; 25 and 100 Kc calibrators, 5 kc clarifier for net or mobile operation. Built-in noise blanker. Transmitter 260 watts PEP/SSB, 80 watts AM, 180 watts CW. Built-in 117VAC supply, 12VDC fused power cable. Receiver sensitivity .3uv/10db S to N ratio. \$649. ACCESSORIES: FP101 Patch, FP101 Speaker, FV101 VFO, FL2100 Amp.

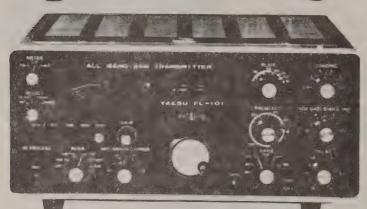


FTdx401 Transceiver (1973). 80 thru 10 Meters plus built-in WWV 10 MHz band. Selectable Sideband, Breakin CW with Sidetone, NoiseBlanker, 25 and 100 KHz Calibrators, VOX, Clarifier, 600HZ CW filter, 1 KHz readout. 6 pole passive crystal filter, velvet smooth tuning. Cooling fan. Built in AC power supply. 180 watts Price \$599. PEP SSB output, 150 watts CW.

Yaesu Musen Model FTdx401-B Transceiver (1974). 80 thru 10 meters plus built-in 10 MHz WWV band. Features include built-in AC power supply, noise blanker, 25 & 100 KHz calibrators, VOX control, Clarifier, break-in CW with sidetone, 1 KHz vernier frequency readout, selectable sideband, cooling fan. 20 tubes plus 50 silicon semiconductors, 6 pole passibe crystal filter, velvet smooth tuning. 180 watts PEP SSB output, 150 watts CW. Price class \$599.



Yaesu Model FR-101 Digital Solid State Receiver (1974). Total coverage capability: 160 thru 2 meters+12 major S.W.bands (6 & 2 mtr converters & xtals optional). Direct freq. readout to 100Hz; provision for all-mode reception: SSB, CW, AM, RTTY, FM (filters and FM detector optional. Plug-in modular circuitry. Compatible transceive op. with FL-101 Xmtr below.



Yaesu Model FL-101 Solid-State
Transmitter (1974). 240 watts PEP
SSB input; 160 thru 10 meter coverage +2 optional auxiliary bands;
all modes: SSB,CW,AM & FSK; plug-in
modular circuitry; provision for RF
speech processor. Matches FR-101 Receiver above with the capability of
compatible transceive operation.



Yaesu Model FR-101S All Band, Solid State Communications Receiver (1974). Provision for all-mode AM,FM, CW,SSB, & RTTY reception on 21 500kHz amateur and S. W. bands from 160 thru 2 meters. May be used transceive with the FL-101 Xmtr above. Features double balanced mixer, less than 100 Hz drift in any ½ hr period after warmup, .5uv sensitivity for 10db S/N ratio on SSB & CW, 2.4kHz, 4.0, .6kHz xtal filters standard, image rejection is 60db minimum and audio output is 2 watts into 4 ohms. Tunes the 160 to a part of the 10 meter band, can be used on 6 and 2 meters with optional accessories. Better than 1kHz readout all bands. Plug-in circuit board, AGC is selectable fast or slow, built-in noise blanker. Has fixed channel xtal control provision. Price \$499.



Yaesu Model Sigmasizer 200R Synthesized 2-Meter FM Transceiver(1974). 200 channel coverage of 146-148 MHz FM Band in 10 KHz

or 140-140 MM2 FM Band IN 10 KM2 increments with no crystals to buy. Simplex or repeater operation. 10 watt or 1 watt power output. Automatic high or low 600 KHz repeater offset(146-147 low; 147-148 high). Priority channel. Front end selective resonators for intermod. rejection and both hi and low I.F. filters for selectivity. Built-in tone burst, automatic final protection. Price class \$449.

These quality military surplus receivers are included because they are frequently exchanged and in demand, but information about them has not been readily available.

(NOTE: W4API C.E.Spitz writes in part: "The R-388/URR is the military equal to the Collins 51J3 Receiver. It was NOT designed for SSB and does a poor job, altho there is an easy conversion to a product detector for SSB and blank mode switch position....I modified several successfully. The 51J4 receiver is the same as the R-388/URR and 51J3...except it has a kit installed which can hold 3 mechanical filters. Operation on SSB is poor, unless a product detector...is installed." W4API



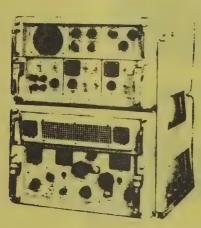
R-388/URR Receiver. Superhetrodyne, 0.5 to 30.5 MHz in 30 bands in one MHz steps. With 6" wide Band Scale can be tuned to any AM signal in either megacycles or kilocycles. Originally for AM, CW or MCW, useable for SSB, too. 5-step crystal selectivity, has a calibrated S-meter, separate controls for crystal phasing, BFO crystal calibrator, AVC noise limiter, and antenna tuning. Freq. stability within 300 cycles. Audio output 1.5 watts into 4 or 600 ohm external speaker or phones. Built-in 115/230VAC 60 hz. power supply. 12½x21x13. Wt. 50 lbs. Surplus price class \$350.



R-390A/URR Receiver. Triple conversion superhet covering 0.5 to 32 MHz read directly from counter-type indicator. 1st IF variable 17.5 to 25MHz. 2nd IF 3 to 2 MHz; 3rd IF fixed 455 KHz. Receives CW, MCW, and AM Voice. Also single sideband and FSK through use of BFO. With built-in Crystal calibrator every 100 KHz. Output impedance 600 ohms. 125ohms balanced antenna input. Built-in 115/230VAC 60 hz power supply. 10½x19x16-3/4". Wt. 90 lbs. Surplus price class: Used \$450; Unused \$700.



51J-4 Receiver. Uses single, double, or triple conversion over operating range of 540KC to 30.5Mc in 30 one-megacycle bands selected by a band switch knob and indicated by a slide rule dial having graduations of 1/10th mc(100-kc) intervals. Each megacycle range is covered with 10 turns of a 100 division dial calibrated at 1Kc intervals. 19 miniature tubes employed, 3 are dual purpose, plus rectifier. Designed to receive AM, CW or MCW(receives SSB with use of the BFO). Freq. stability 300cps. Sensitivity 5uv to 15uv for 10db/S/N ratio. Has AVC, S-meter, BFO, Noise limiter, employs crystal and mechanical filters. Audio output 1½ watts into phones, 4, 600 ohms for external speaker/line. 100KC Calibrator and antenna trim included. Operates from 115/230VAC. Two styles: Panel mount or in cabinet. 21½x12½x13½. Gray wrinkle finish. Matching external spkr available. Surplus.



AN/WRR-2A(shipboard installation in a mounting cradle) and AN/FRR-59A(shore operation rack mounting). Navy receivers built by National in 1963. Triple conversion superhet. 2mc to 32mc in 4 bands. Especially designed for SSB, will also receive AM, CW, MCW, facsimile, and frequency-shift teletype. Can simultaneously receive two different types of intelligence on the upper and lower sideband. A selector switch and direct-reading counters are used. Tuning may be incremental with crystal-controlled internal frequency standard for accurate settings in increments of 0.5 Kc and a frequency stability of one part in 10'(1 cycle in 10mc!), or tuning can be continuous with a slight reduction in stability. Has BFO, AGC, cooling fan, built-in 115VAC 50-60hz power supplies. Consists of two drawers one above the other joined together. Total Dimensions: 32Hx28Wx31"D. 348 lbs. Audio - output into 600 ohm phone jacks. Sensitivity varies from 1.5uv to 6uv, and selectivity from .35kc to 12kc depending on the Mode of reception. Original government cost approx. \$10,000. Surplus price class \$495, as is condx.



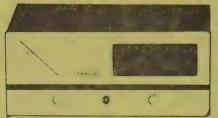
R-392/URR Receiver. 24VDC Version of Popular R-390 Military receiver. 32 bands 500kHz thru 32mHz continuous. Mechanical type digital readout to 300 Hz. Separate mc and kc tuning. Triple conversion lower 8 bands, double conversion all other bands. Built in xtal calib., squelch, RF gain, audio gain, antenna tuning, BFO, variable selectivity 8,4,2kHz. Operates 22-30VDC 3 amps. 112x144x11". 52 lbs. CW/MCW/AM/FSK/SSB.



R648/ARR41 Receiver. Sometimes referred to as a mini-version of the R390A receiver and has most of the key features of the R-390A. Digital readout 500kHz to 24.999mHz; 1.4kHz to 6kHz mechanical filters; 500kHz to IF, double conversion superhet; crystal calibrator; 500 ohm output; 17 tubes. 8x17x12". Requires conversion for AC operation.



618-T Transceiver (also known as ARC94, ARC102, MRC95, VC102) Airborne SSB Transceiver.



COMTRON Model 960A VHF FM Mobile Unit. Mostly solic state except for driver and final which are instant heating tubes. 150mHz front mount type, 30 watts transmitter output. 2 channel deck included.



General Electric MESSAGE MATE Personal Pocket Receiver with Sel-Call. Fully transistorized, receives private calling tone and voice, 100% solid state FM. 150-162 MHz or 162-174 MHz ranges. Selective signaling options provide for private messages by transmitting calling tones attuned to the reeds in your receiver. Operates in compliance with Part 15 of the FCC rules. Powered by nicad batteries w/chargers, or mercury batteries. Low band models also available as surplus.

General Electric POCKET MATE 150-162 MHZ FM 2-Meter Convertible Units. Fully solid state, .3uv sensitivity for 20db quieting, I watt output. Have adjustable squelch, telescoping antenna, speaker doubles as mic. on transmit, crystal controlled receive and transmit. Nicad or mercury battery operation with 180-190ma drain on transmit with I watt output. Deviation adjustable some models, fixed at ±5khz in others. Replace existing crystals with 2-meter crystals and re-align for 2m FM use.



General Electric PROGRESS LINE Mobile FM Units. Require an accessory control head and external speaker.

MA/E13 - Low band 30 to 54 mHz, 30 watts output, 6/12VDC Vib. p.s. Available fully narrow-banded or wideband rcv.

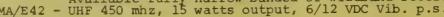
MA/E16 - Low band 30 to 54 mHz, 60 watts output, 6/12VDC Vib. p.s. Available fully narrow-banded or wideband rcv. MA/E33 - VHF(2-meter band), 30 watts output, 6/12VDC Vib. p.s.

Available fully narrow-banded or wideband receive.

MA/E36 - VHF(2-meter band), 60 watts output, 6/12VDC Vib. p.s.

Available fully narrow-banded or wideband receive.

MA/E42 - UHF 450 mhz, 15 watts output, 6/12 VDC Vib. p.s.





ME33 - VHF(2-meter band), 30 watts output, 6/12VDC Vib. p.s.



MT/33 - VHF(2-meter band), 30 watts output, 12VDC transistor p.s., available fully narrowband or wideband receive.

MT/36 - VHF(2-meter band), 50 watts output, 12VDC transistor
p.s., available fully narrowband or wideband receive.

MT/42 - UHF 450 mHz, 15 watts output, 12VDC transistor p.s.



General Electric RADIOTELEPHONE DTO3 150mHz 5-Channel. General Electric RADIOTELEPHONE STO5 450mHz 2-Channel.



General Electric Progress Line #7776221-G7, 144-174 MHz 4-freq. Transmit & Receive Deck. General Electric Progress Line #7776221-G8, 450-470 MHz 4-Freq. Transmit & Receive Deck.



Hygain ProScan Programmable Monitor Receiver. Includes boards to operate on any or all 3 bands: Lo 25-50mHz ±7mHz; VHF 150-174mHz ±10 mHz; UHF 450-470mHz ±10mHz. Sensitivity .5uv for 20db quieting. 16-Channels programmable, use Base Station or mobile. Features include: AC-DC cords included, built-in spkr, external spkr jack, push-button channel selection, mobile mtg. racket, squelch/ delay switch; scan-manual switch; ajustable squelch and scan rate control. 8x8x3". Weight 8 lbs. Xtals \$5 each.



Kelvin Hughes MODEL 822 FM Front Mount Unit. 10 watts output, 10 channels, 150 mHz all solid state. Mobile, operates from 12VDC.



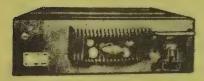
Motorola Dispatcher Model D33CMT-3100BM. Solidstate receiver & P.S. with 3 tubes in final. 20 watts out. A front mount unit. Operate 12VDC on positive or negative ground.

Motorola Model D43GGV-3100. Covers 150-170 MHz. 6 or 12 volt vibrator power supply, 30 watts output, front mount with "Private Line" and is fully narrow band.



Motorola Models T51G or T51GGV. Cover 40-50 MHz, 6 or 12 volt vibrator power supply, 50 watts output, fully narrow

Motorola Model T53GGD. Covers 150-170 MHz, 6 or 12 volt dynamotor power supply, 50 watts output, transmit narrow band, receive wide band.



MOTOROLA Model X53GKT Hi Band FM Mobile Unit. Two 60 watt Hi Band transmitters, one Hi Band receiver for multichannel operation. 12VDC Transistor power supply.



Motorola Model X51GGS Mobile Unit. 2-Freq. 40-50 MHz transmit, 3-Freq. Receve(Dual freq. 40-50 MHz, single freq. 30-40 MHz) with dual front end for simultaneous receive. 50 watts output, full transistor power supply.

MOTOROLA Model X71GJT-1190B 6-Meter Mobile FM Unit. 100 Watts transmitter output, I2VDC transistor powered mobile with 2 freq. transmit and 2 freq. receive in the 40-50 mHz range, and a separate receiver front end allows a 3rd receive frequency in the 30-40 mHz range for multi-frequency operation.



Nems-Clarke Model 1401 Telemetry Receiver. Late model 215 to 260 MHz receiver with a crystal controlled 1st injection oscillator, variable 2nd oscillator ±150 KHz and selectable 100/500 Hz IF bandwidth. (Operation at any frequency can be accomplished by converter ahead of rcvr).

Ninic NFM22 150mHz FM Hand Held Solid State Receiver. Telescoping ant., case.



R.C.A. Model CMC60B VHF 150-170mHz FM Unit. 60 watts transmitter output. Operates 6/12VDC. Transmitter has a dynamotor power supply, receiver has a vibrator p.s.



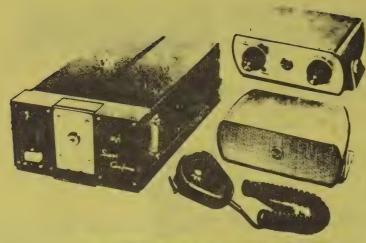
R.C.A. Model CMCT30 VHF 148-172mHz FM Unit. 30 watts transmitter output, transistorized power supply, fully narrow-banded unit operating on 12VDC.

R.C.A. Model CMFT50 VHF FM Unit. Covers 25 to 54 MHz 6 and 10 meter FM bands without chaning coils. 50 watts output, 12V transistor power supply, partly transistorized receiver, fully narrow banded. 2.2 Amp drain.

R.C.A. Model CMCT60 VHF 148-174 mHz FM Unit. 60 watts transmitter output. Operates on 12VDC with integral transistor power supply. Fully narrow-banded.



R.C.A. CMU-15B UHF FM Receiver-Transmitter. Single channel 450-470 mHz crystal-controlled unit operating 6/12VDC mobile with integral vibrator p.s. Dual conversion superhet with squelch, audio output impedance of 4 ohms for speaker, 600 ohms for line, 1 watt output. 50 ohms input impedance. Transmitter output 15 watts; deviation ±15kHz. Mic. input impedance 100 ohms. Uses tubes, 2 5894 in final. 15x6xx18. Wt. 60 lbs. Requires accessory control head, cables, and external speaker.





R.C.A. Supercarfones Model CMUA6 FM Transceiver. 450 MHz unit, 60 watts output, solid state receiver and exciter, 4-freq. transmit and receive, tone encoded squelch. (Shown with some accessories).

R.C.A. Supercarfones Model CMUA-35N2T: FM Transceiver. 450 MHz unit, 35 watts output. Solid state receiver and exciter, 4-freq. both transmit & receive, tone encoded squelch. (Show w/some accessories).

SGC Inc. Model Avenger One SSB Radio Telephone (1974). Can be channelized by purchaser. All solid state, 12 channels between 2 & 9 MHz, 30 watts PEP. Designed for foreign markets. Pictured on top.

SGC Inc. Model SG711 SSB Radio Telephone (1974) (Shown in middle) All solid state, 11 channels between 1.6 & 9.0 MHz, 100 watts PEP power input to final.

SGC Inc. Model InterContinental One SSB Radio Telephone (1974). (Shown bottom). A digital readout is optional. All solid state with 36 channels between 1.6 and 18 MHz. 150 watts PEP SSB input to final stage.

INDEX for "HAM EQUIPMENT BUYERS GUIDE" 1975 Update Sheets covering RECEIVERS, TRANSCEIVERS, and AMPLIFIERS from Jan.1, 1975 to 1976.

Model No./Name See... Type

Alpha 76..ETO(Ehrhorn Technological Operations)..Amplifier Alpha 77D..ETO..Amplifier

Alpha V74..ETO..Amplifier Alpha V74..ETO..Amplifier

BA-1..Spectrum Comm. ..Amplifier

CL-146A..Tempo..Transceiver CP-1..Comm. Power..Amplifier series CR-150LA..CR Electronics..Amplifier CR-250AA..CR Electronics..Amplifier CR-300LA..CR Electronics..Amplifier CR-500AA..CR Electronics..Amplifier

Echo-II..KLM Electronics..Transceiver Echo-70CM..KLM Electronics..Transceiver

FM-144-10SXR-II..Kyokuto Denshi Kaisha..Transceiver

FM-DX..Clegg..Transceiver FT-101E..Yaesu..Transceiver FT-101EE..Yaesu..Transceiver FT-201..Yaesu..Transceiver FT-221..Yaesu..Transceiver FT-620B..Yaesu..Transceiver

GTX-1T...Genave..Transceiver GTX-200-T...Genave..Transceiver

Horizon-2..Standard Comm. ..Transceiver HR-440..Regency Electronics..Transceiver HW-104..Heath..Transceiver HW-2021..Heath..Transceiver HW-2026..Heath..Transceiver

IC-22A..Icom..Transceiver
IC-30A..Icom..Transceiver
ITC Multi-5000..International Telecommunications..Transceiver

K-2000..Kenwood..Amplifier KDK-144..Ham Import Sales..Transceiver KLM Multi-2000..KLM Electronics..

Mini-Amp I..PRA Industries..Amplifier
Multi-2000..ITC or KLM..Transceiver
Multi-5000..ITC (International Telecommunications..Transceiver

P15A1..M-Tech Engineering..Amplifier P50A1..M-Tech Engineering..Amplifier P50A10..M-Tech Engineering..Amplifier P100A5..M-Tech Engineering..Amplifier P100A10..M-Tech Engineering..Amplifier P100A20..M-Tech Engineering..Amplifier P100A20..M-Tech Engineering..Amplifier PA10-70BL..KLM Electronics..Amplifier PA10-80BL..KLM Electronics..Amplifier PA10-140BL..KLM Electronics..Amplifier PA10-160BL..KLM Electronics..Amplifier PA140/10..VHF Engineering..Amplifier PA140/30..VHF Engineering..Amplifier PA432/10..VHF Engineering..Amplifier PA432/10..VHF Engineering..Amplifier PAA 10/80..PRA Industries..Amplifier

QR-666..Kenwood..Receiver

R-599D..Kenwood..Receiver RFA-..Vibratrol..Amplifier series RX432B..VHF Engineering..Receiver Model No./Name See... Type

SB-313..Heath..Receiver
SE-285..Karl Braun..Transceiver
SE-600..Karl Braun..Transceiver
Spec Comm 512..Spectrum Comm...Transceiver

Spec Comm 560..Spectrum Comm. ..Trans-

SSR-1..Drake..Receiver

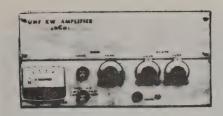
T-599D..Kenwood..Transmitter
T-2000..Tempo..Amplifier
Tempo One Digital..Tempo..Transceiver
"The Ultimate"..ETO..Amplifier
Triton IV..Ten-Tec..Transceiver
TS-520 Customized..Kenwood..Transceiver
TS-700A..Kenwood..Transceiver
TX432B..VHF Engineering..Transmitter

Vega I.. Vegas Radio. . Amplifier

WE-224..Wilson..Transceiver

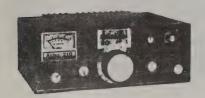
1.3M10-60L..Specialty Comm..Amplifier
1.3M10-120L..Specialty Comm...Amplifier
1.3M30-120L..Specialty Comm...Amplifier
2M10-70L..Specialty Comm...Amplifier
2M10-140L..Specialty Comm...Amplifier
2M30-140L..Specialty Comm...Amplifier
2M30-140L..Specialty Comm...Amplifier
100AL10..Tempo..Amplifier
210..Atlas Radio..Transceiver
210M..Atlas Radio..Transceiver
215X..Atlas Radio..Transceiver
215M..Atlas Radio..Transceiver
215X..Atlas Radio..Transceiver
215X..Atlas Radio..Transceiver
215X..Atlas Radio..Transceiver
215X..Atlas Radio..Transceiver
21002..Tempo..Amplifier





Amateur Radio Component Service (ARCOS) UHF 432 MHZ KW Amplifier (1975). Similar to K2RIW design described in OST April & May '72. Low drive requirement using parallel 4CX250R's in AB operation. Dual high gain low power output (typical- 100 watts out w/3w. drive) or as a high power unit near KW PEP output w/20 to 25 w. drive. Includes power cables, no power supplies (described below). Prices are w/o tubes: Assembled & tested \$490; Kit \$340. Pr. 4CX250R's \$94. Panel Mount Model w/4" meter \$570. Transmitting Converter 3w. output from 1 watt drive for 28 in/432 out included in amplifier above below meter on panel mount model \$740. Pr. 6939's for T/C \$44. Power Supplies: #I - 2000V. 1kW PEP, 400 watts continuous. Self-contained Bias, Screen and Filament cumplies 177710"H 30 the Cafe With hard and applied to the Cafe With hard and the Cafe With

supplies: #1 - 2000V. 1KW PEP, 400 watts continuous. Self-contained Bias, Screen and Filament supplies. 17x7xl0"H, 30 lbs. \$250. (With built-in supply for T/C \$295). #II - 2000V. 2KW PEP, 1KW continuous, with self-contained Bias, Screen and Filament supplies, heavy duty transformers & choke, good regulation. 17xl0x 10"H, 80 lbs. \$525. #III - 250V. @150MA (for 28/432 TC) Transformer/choke supply with 6A. 6.3V filament \$44. Blowers: Mounted on base to match amplifer w/air hose, fittings, power cord, Dayton blowers: 350cfm \$58; 250cfm \$48.



Atlas Radio Inc. Model 210 Solid State SSB Transceiver (1975). All solid-state modular construction. 200 watt PEP input and CW input(120 watts power rating on 10m.) Plug-in design for quick removal from mobile mount and insertion into AC base console. Operates directly from 12-14 VDC. Freq. Range: 3700-4050, 7000-7350, 14,000-14,350, 21,100-21,450, and 28,400-29.100. 3\(\frac{1}{2}\text{x9\(\text{x9\(\frac{1}{2}\text{x9\(\frac{1}{2}\text{x9\(\frac{1}{2}\te 210 or 215 \$599. Special MARS Models 210M/215M permit out of band operation with Model 10X Xtal oscillator accessory. AR117 AC Console \$129; AR200 Portable AC Supply \$89; Plug-in Mobile Mount \$44. VOX and optional plug-in Noise Blanker accessories also available.



Atlas Radio Inc. Model 210X SSB/CW Transceiver(1975). Similar to the Model 210 in size 32x92x92D, 7 lbs. 200 watts PEP SSB and CW input(120w on 10 meters) all solid-state modular construction, operates directly from 12-14VDC. No transmitter tuning simply tune your freq. and go. Selectivity 9.2kHz at 120db down. Plus improved features: Full band coverage 80 thru 15 meters and 28,400-29,400 or adjustable for any 1,000 KHz segment of 10 meters; improved AGC, S-meter calibration, image suppression; extended coverage for MARS operation with Model 10X Xtal oscillator accessory. MODEL 215X same as Model 210Xbut deletes 10 meters and includes 160 meter band. Price of either Model 210Xor 215Xis \$649.



Karl Braun (W.Germany) Model SE285 2M FM Transceiver (1975) 100 channels with a freq. spacing of 30kHz between 145 and 148mHz. 5 programmed repeater or simplex channels can be selected on a rotary switch. All other channels can be selectedindependently for transmit and receive using thumbwheel switches on the front panel. Digital freq. selection using a synthesizer. Receiver equipped with KVG 10.7 MHz crystal filter and crystal discriminator. Operates 12VDC. Completely silicon transistorized. Output power 10w RF. Insensitive to incorrectly matched antennas. Built-in squelch, calling tone, speaker. Ext.Spkr connection. \$684.



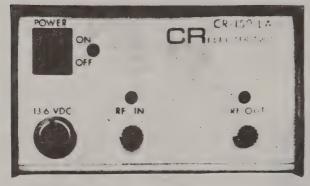
Braun Model SE600 SSB/AM/FM/CW 2 Meter Transceiver (1975). Low noise figure, excellent selectivity, high cross and intermodulation rejection are claimed. True transceive or separate operation of xmtr and rcvr, which can be switched independently to the CW,LSB,USB,AM and FM modes, for problemless operation via repeaters, satellite or balloon-carried translators. Digital freq. readout from built-in counter using 13mm tubes (Nixie). Direct readout of the transmit and receive frequency; the indication jumps from one to the other on depressing the PTT button etc. Separate xtal filters for each mode. True AM with plate/screen modulation. Has built-in speech processor. Product detector for SSB and xtal discriminator for FM. VOX, anti-trip and PTT facilities, RF-output and S-meters. Built-in antenna relay. Built-in AC & 12VDC power supplies. Price class \$1749. (W.Germany).



Clegg Division of ISC Model FM-DX 2 Meter FM Transceiver (1975). Digital PLL synthesized 35-watt FM transceiver, 143.5 to 148.5 MHz in 5-kHz steps, speech processor, transmit offset xtals for simplex, ±600kHz; provision for 3 added offsets up to 1.5mHz; Hi-Lo (750mw) pwr output switch; 6-digit direct freq. readout; rcvr sensitivity .25uv for 12db SINAD, 8-pole monolithic xtal IF filter, 30db adjacent channel rejection; built-in spkr, S-meter with 50db range; dual-gate FET front-end; dynamic mic.; remote control and accessory tone input receptacle. 10½x7x3½"H. 5½ lbs. Operates 12-14VDC. Mobile Mtg bracket. \$645.



Communications Power, Inc. CPl Series of 450 MHZ Solid State Amplifiers (1975). All solid state using internally matched RF power devices, rugged, infinite VSWR at all phase angles. Available in 5 versions including a linear model for SSB operation. Series offered from 25 to 60 watt models. Rated broadband 430 to 450MHz operation, never need tuning. Automatic internal RF detection and switching for in-line installation ease. Compatible with existing equipment, for mobile units only (13.6V DC) with FET receiver preamp also available. Prices start at \$119.95 up.



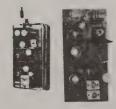
CR Electronics Linear Amplifier Series—(1975). Fully solid state, frequency range of 1.6 to 30 mHz, only require 3 to 5 watts of drive. Model CR-150LA has 200 watts PEP output, and Model CR-300LA has 400 watts PEP output. Useful on the 80, 40, 20, 15 and 10 meter amateur bands.



CR Electronics Solid State Linear Amplifiers (1975). Fully solid state, 2-30 MHz Linear Power Amplifier series: Model CR250AA: 250 to 400 watts PEP input power with as little as 2 to 5 watts drive. 12VDC operation, \$299. Model CR500AA: 500 to 700 watts PEP input power with as little as 4 to 10 watts drive. 115/230VAC, \$599.



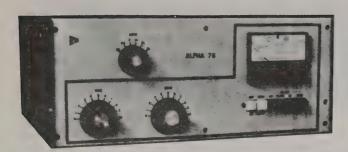
R.L. Drake Co. Model SSR-1 Receiver (1975). Synthesized General coverage 500 kHz to 30 mHz, all solid state, built in 117/234VAC ±20% (if AC power fails unit switches automatically to internal 8 D-cell battery pack); selectable sidebands. Freq. read accurately to 5 kHz; sensitivity .5uv for 10db S+N/N SSB and better than 2uv for 10db S+N/N AM. For reduced current drain on DC operation the dials do no light up unless a red pushbutton on the front panel is depressed. Price class \$350.



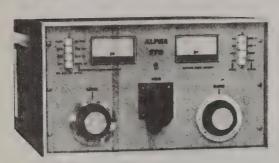
Elprocon 1 Watt 2 Meter Transmitter(1975). 2 Channel operation, frequency range 144-148 MHz, 1 watt minimum power output @12.5 VDC supply voltage; 50 ohm RF output impedance; 8X Xtal multiplication factor; narrow band FM ±5 KHz; rugged balanced emitter output transistor; 3-34x1-78x1"H, assembled & tested \$32.95.



To VHF Alpha V74 Linear Amplifier (1975). Six and two meter cool kilowatt' provides a full kilowatt FM/FSK input with just 20 watts drive; 2KW PEP highly-linear SSB only 35 watts PEP drive. Self-contained in desk-top cabinet, rugged, ceramic grounded-grid triode tube(s); ducted air cooling; LED instant drive level indication; grid-current derived, amplified 10-Z output ALC; easy access modular extruded aluminum cabinet; 6 and 2 meter coverage with a full continuous KW (2+KW PEP) DC input capability in all modes. Price class \$1195.



ETO (Ehrhorn Technological Operations, Inc.) Alpha 76 HF Linear Amplifier (1975) Full coverage 10 thru 80 meters (160 M. extension option \$49.50). Handles 2+KW PEP and 1KW average DC input continuously with ease CW/FSK/SSTV; husky components, 8874 ceramic tubes, Eimac triodes; self-contained and lightweight, 1 cubic foot in size; 1 year warranty. \$795.



ETO 'The Ultimate' Alpha 77D Linear Amplifier (1975). Ultra-conservative, super-rugged design, 1.8 thru 30 MHz, 8877 Eimac triode, full sign, 1.8 thru 30 MHz, 8877 Eimac triode, full QSK break-in, vacuum tuning & T/R, whisper quiet, full year warranty. Self-contained in desk-top cabinet, ceramic grounded grid triode, ducted air cooling, thermally controlled centrifugal blower, electronic bias control, vacuum tuning for precise resetability, quick bandchange, hi-band efficiency; metering of peak power input; LED instant drive level indication; grid-current derived, amplified lo-Z output ALC; easy access extruded aluminum cabinet. \$2695.



Genave Model GTX-200-T 2-Meter FM Auto-Patch Transceiver (1975). A 12-digit tone encoder: TE-II has been added to the GTX-200 (see description in our HAM EQUIPMENT GUIDE Vol. II 2nd Edition) by rearranging the location of the Mode switch and the Hi/Lo/Off switch on the front panel. All solid state, 30 watts, same dual-gate MOSFET preamp receiver. Also added is a rear panel external spkr jack. \$250.



Genave Model GTX-1T 2-Meter Hand Held FM Transceiver With Built-In Tone Encoder (1975). Features include metal case, American made, accepts standard plug-in crystals, has 10.7mHz xtal filter, 2.5 watts output, battery holder accepts AA regular, alkaline, or nicad cells, Rubber Ducky antenna and wrist safety carrying strap included. 6 Channels, approx. 8x2-5/8x1-3/8"D. Trimmer caps on TX & RX Xtals. Has TE-II Tel Encoder mounted on front panel. Price class \$349.95. Model GTX-1 is the same without the TE-II tone encoder. Price class \$299.95. Accessories available for either model include nicad battery pack, charger for GTX-1 battery pack, leather carrying case, TE III Tone Encoder for auto patch.



Ham Import Sales KDK-144 Synthesized VHF FM Transceiver (1975). Synthesized so no xtals needed; LED Readout; 10kHz Frequency dial up capability 146-148mHz; 600kHz up and down repeater capability; pre-programmed memory channel included. 10w. RF output, 2w. audio output. 2x6-3/8x7-3/4"D Price class \$399.



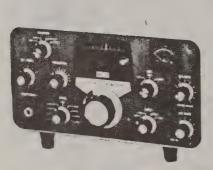
Hamtronics, Inc. New FM Xmtr Kits (1975): 2-Meter, 200mw output FM/CW Exciter \$40.
(also 2 new Power Amplifier Kits) 432-450mHz Tripler/Driver \$19.95. 20-25w 2meter Power Amplifier using new RF power modules \$79.95 13-15w 432-450mHz Power Amplifier using new RF power modules \$79.95.

Hamtronics, Inc. Improved VHF FM Receiver Kit (1975). Consists of a VHF converter board and an I-F/audio board. Kit is \$65 less crystal. A UHF Improved FM Receiver Kit (1975) which includes the UHF and VHF converters and the I-F/audio board is available for \$80, less crystals.



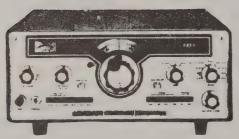
Heathkit HW-2026 2-Meter FM Sythesized Transceiver (1975). A true 5 kHz per step synthesizer opens every channel from 144 to 147.995MHz. Lever switches, a 0/5 kHz toggle switch permits split channel operation. 10w. output, operates into infinite VSWR without failure.
.5uv sensitivity for 12db SINAD, Schmitt-trigger .3u threshold squelch, diode-protected dual-gate MOSFET front end, IC IF, dual conversion and 8-pole crystal filter, excellent adjacent channel rejection. Builtin 2x6 spkr. LED synthesizer lock on freq. indication & channel use warning. Mode switch selects simplex,-600 kHz offset, or aux. xtal with a different offset freq. A built in continuous/burst encoder accesses most repeaters. Includes mike and mobile mtg. bracket. 84x 2-3/4x9.875"D. Requires 12VDC to operate. \$289.95. HW-202-1 A.C. P.S. for base operation \$32.95.

Heathkit HW-2021 2-Meter FM Hand-Held Transceiver (1975). 1 watt, accepts up to 5 plug-in crystals(146.94 xtal and a -600kHz offset xtal are supplied); each crystal provides both xmit & rcve. Covers 143.9 thru 148.3 in 2-MHz segments; Simplex/Offset switch provides up to 10 xmit channels; .5uv sensitivity; separate mike, built-in rechargeable batteries and external charger; battery saver circuit. Rubber Ducky ant., external antenna/amplifier jack. Optional Kit HW-2021-3 Auto-Patch Encoder mounts directly on case (shown) and has 12-digit keyboard and keying light and gives access to telephone lines through repeaters with touch-tone input. Price complete w/nicad battery pack \$169.95. HWA-2021-3 Auto-Patch Encoder \$32.95. HWA-2021-2 Carrying Case \$12.95.



Heathkit SB-313 SWL Receiver Kit (Pre-1975).

Provides AM and CW reception on 9 bands from
3.5 to 21.8 MHz. 5 KHz AM crystal filter supplied; optional CW crystal filter available for optimum CW selectivity. Sensitivity less than .5 uv for 10db S+N/N ratio for SSB operation. Stability less than 100 Hz drift per hr. after 10 min. warmup. Factory assembled & a-ligned LMO (Linear Master Oscillator)provides superior linearity, dial tracking and stabil-ity. Includes IC xtal calibrator for 25/100kHz markers, 3-position AGC, front panel S-meter, RF attenuator, smooth, backlash-free tuning. Operates 110VAC. Less spkr. Kit price \$390. Kit SB-600 8-ohm 6x9" spkr. & cabinet \$23.



Heathkit HW-104 CW/SSB Transceiver (1975). Kit All solid state, cool and quiet, output switchable from 1 to 100 watts. Coverage from 3.5 to 29.0mHz(thru 10m. with HWA-104-1 10-M Accessory). 3rd order distortion is 30db down, unwanted sideband suppression is 55db. Broadband wanted sideband suppression is 55db. Broadband with luv sensitivity. Cross-modulation & intermodulation reduced for quiet background. Has a 15mHz WWV position, a 15mHz per turn spinner, 5kHz markings on the circular dial, a built-in 100/25kHz calibrator for accuracy to 2kHz. It operates 12VDC so useable mobile.5-3/4x14'x14"

Net wt. 20 lbs. Price class(less spkr) Kit \$540.

ACCESSORIES: Kit HS-1661 matching speaker(5x7" oval, 3.2 ohms, 300 to 3000 Hz, tail-ored for SSB response) \$19.95. Kit HP-1144 AC power supply \$89.95. Kit HWA-104-1 10-meter extension \$16.95. SBA-104-1 Noise blanker for 50db blanking \$26.95. SBA-104-2 mobile mount \$36.95. SBA-104-3 400Hz CW crystal filter \$39.95.



Icom IC-22A 2-Meter FM Transceiver (1975). A modified version of the IC-22 (see description in our HAM EQUIPMENT GUIDE Vol. II 2nd edition). Front panel and controls changed, larger channel numbers, now adapted to permit using the new DV-2l Digital VFO. Other features include 22 channel capacity (5 gupplied) helical PF filtering in receiver colsupplied), helical RF filtering in receiver, solid state T-R switching, lw./10w.switch, trimmer capacitors on both xmit & rcve xtals, and a 9 pin

accessory jack with the discriminator already wired for freq. calibration. Price class \$249.

Icom IC-30A UHF FM Transceiver(1975). Completely solid state, 22 channel capability (5 supplied) in the 450mHz range. Output 10 watts, receiver sensitivity better than .6uv for 20db quieting, excellent shielding, modular construction. Comes equipped with a 9 pin plug on the side to provide access to discriminator and room for adding external accessories. Price class \$399. (Appearance & cabinet identical to the IC-22A above).



International Telecommunications Corp. ITC Multi-5000
Transceiver (1975). Covers
143 to 148.99mHz in 10 kHz
(PLL Synthesized) steps with continuous between channel tuning (RIT and VXO). Digital Readout. Repeater offset is standard Simplex plus/minus 600kHz with 3 optional offsets for MARS, CAP and other non-standard repeaters. Sensitivity: FM: .33uv for 20db quieting; SSB: .25uv for 10db

S+N/N. Selectivity on FM 15kHz at -6db, SSB 2.2kHz at -6db. Power output on all modes is continuously adjustable from 1 to 80 watts. Modes of operation include NBFM, WBFM, LSB, USB, AM...CW and MCW on USB, LSB and AM. Offset frequency (MHz, 100kHz, 10kHz), Squelch, AGC, Vox, Clipper, adjustable threshold noise blanker. 12x3.1x11"D. 8 lbs. \$695. 13.6VDC, 15A regulated power supply \$55.



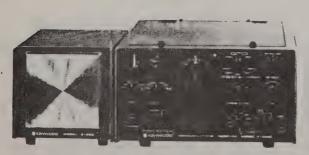
Kenwood K-2000 2KW PEP Linear Amplifier (1975). A perfect companion for the TS-520 or T-599/A/D units. Compact, reliable. Uses 2-Eimac 8873 grounded grid triodes cooled thru a large heat sink. Full 2 KW PEP input for SSB operation, coverage of 80-10 meters. Built in solid state P.S., antenna relay, relative RF POWER INDICATOR. Wired, \$795.



Kenwood TS-520 Transceiver Customized by Henry Radio to include a built-in digital Frequency Display (1975). 4-Digit frequency readout to 100 cycles is custom added to a standard new TS-520 (see our HAM EQUIPMENT GUIDE Vol.II 2nd Edition for a description of the TS-520 Transceiver). Displays the actual transmit and receive frequencies as fast as you tune. Bright LED readout. The display is interlocked into the standard controls of the transceiver; bandswitching, sideband switching, & RIT are all automatic. The digital circuits are incorporated directly inside the transceiver and do not affect the normal operating characteristics of the TS-520. Customized TS-520 Digital Transceiver by Henry \$729. Retrofit Modification by Henry to your receiver sent to them...\$129.



Kenwood T-599D Solid-State Transmitter (1975) Same as the T-599A (see our HAM EQUIPMENT GUIDE Vol.II 2nd Edtion for a description of the T-599A) with a new rich darker appearance to these "Twin" Xmtr and matching Rcvr R-599D/Speaker S599D. Hybrid design, built-in 110 or 220VAC power supply, full metering, AM,SSB,CW operation, lkHz freq. readout; VOX with delay, sensitivity and anti-Vox adjustment; built-in semi-automatic CW w/sidetone; built-in spotting function when used with companion R-599D rcvr; full 10-80 meter coverage; low-pass TVI filter, 200 watts PEP nominal SSB input, 200w. DC CW 80-15M, 160w. 10M. 10w. power "tune up" position; built in cooling fan, selectable hi or low mike imped. 10.5x5.5x12.2"D. \$479 price class.



Kenwood R-599D Solid-State Receiver (1975). Matching "Twin" to the T-599D above with new rich darker appearance added to the former R-599A (see description in our HAM EQUIP-MENT GUIDE Vol.II 2nd Edition). Full 10-160 M.coverage AM,SSB,CW,FM reception; selectable AGC, 25kHz calibrator, squelch, 1kHz readout, split channel operation w/T-599D; 8-pole SSB &CW filters, AM filter; built-in S-meter, 115/230VAC AC or 12VDC operation, 10mHz WWV reception. 10½x5½x12½. \$459. Matching S-599D Speaker in cabinet(shown at 1eft) \$19. CC29A 2-meter converter \$31. CC69A 6-meter converter \$31.



Kenwood TS-700A 2-Meter Transceiver (1975). Solid state transceiver covering 144-148mHz USB, LSB, CW, AM, FM; power output 10w rms CW, FM, 20s. PEP SSB, 3w. rms AM; VFO, automatic ±600kHz transmit offset switching; simplex also possible; transmit/receive capability on 44 fixed channels using 11 xtals; receiver offset tuning; noise blanker; sensitivity .25uv for 10db S/N; selectivity 2.3kHz @6db; zero center discriminator/s-meter. Comes w/built-in 110 or 220VAC and 12VDC power supplies, spkr, PTT dynamic mic. 11x5x12½"D. Price class \$700.



<u>Kenwood QR-666 Solid-State Communications Receiver</u> (very late 1975). Receives AM, SSB, CW modes. The "last word in state-of-the-art-technology" is claimed in their announcement ad. No further info. is available at this writing.



KLM Electronics KLM Multi-2000 2-Meter Transceiver (1975). Similar to and made by ITC Multi-2000. Features include Fully solid-state, modular construction, PLL synthesizer covers 144-148mHz in 10kHz steps; separate VXO and RIT for full between-channel tuning; simplex or ±600kHz offset for repeater operation; 3 selectable priority channels; CW/SSB/NBFM/WBFM operating modes; Built-in AC and DC power supplies, noise-blanker, squelch, RF gain. Selectable lw or 10w output. Separate S/power and freq. deviation meters; built-in test(call) tone and touch-tone provision. Sensivitity .3uv for 12db SINAD; immune to crossmodulation and intermodulation. Compatible with KLM linear amplifiers. Price class \$795.



KLM Electronics Echo-II 2-Meter CW/SSB Transceiver (1975). Frequency synthesized, separate VXO and RIT. Includes crystals for 145-145.23 & 145.77-146 MJz. Fixed or mobile, 10 watt PEP output, freq. step 10 kHz with VXO & RIT ±6kHz. Noise blanker, squelch, sensitivity .5uv for 10db S/N ratio; selectivity 2.4 kHz @-6db. Has AGC, ALC, S/RF output meter, semi-CW breakin. All solid state. Operates 11-16VDC. 2½x8½x9-3/4". Complete w/mic., 2 power cords, mobil brkt. Price \$389. Options: USB/LSB mod kit for Oscar 7 mode B 2mtr downlink installed in Echo II \$27.95; Low

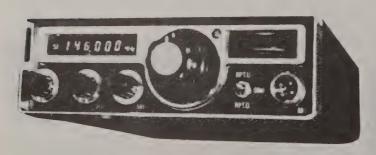
Noise 2.5db NF type preamp installed in Echo II \$26.

KLM Electronics Echo-70CM 432 MHz SSB/CW Transceiver (1975). Similar to the Echo-II and ideal for Oscar 7 mode B uplink. USB/LSB 10 watts. 432 MHz band. Price \$495.

KLM Electronics Power Amplifiers (1975 and before). 13.6VDC. PA 10-70BL linearized for use with Echo-II: 10 watts input, 70 watts output PEP SSB/CW..\$139.95

PA 10-140BL linearized for use with Echo-II: 10 watts input, 140 watts PEP SSB/CW output..\$199.95.

PA 10-80BL 10 watts input for CW, FM, SSB. 80 watts output. PA 10-160BL 10 watts input for CW,FM, SSB. 160 watts output. PA 10-160BL 10 watts input for CW,FM, SSB. 160 watts output. WIM Electronics Amplifiers for the 420-450 MHz Band. Operate 13.6VDC fixed/mobile: (1975): PA 10-35C 10 watts input 35 watts out. PA 10-70C 10w. in, 70 watts out. PA 2-40C 2 watts input 35 watts out. PA 2-70C 2w. in, 70 watts out.



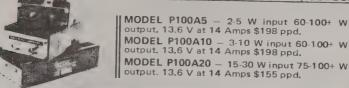
Kyokuto Denshi Kaisha Ltd. (Japan) FM-144-10SXR-II Synthesized 2-M Transceiver (1975). 144-148, LED Digital readout, 6-digits, Solid-state PLL,
.25uv sensitivity, 9-pole filter, ALC,
lwatt & lowatt switched output, ±600
kHz offset, S/RF output meter, priority channel, true FM, automatic tuning

of receiver front end, 2 monitor LEDs indicate in-coming signal-channel busy, and unlock condition of phase locked loop. Integral 12VDC alternator noise regulator, dynamic mic, external speaker jack. 24x64x75. \$389. Reg.A.C. PS FMPS-4R \$49.



M-Tech Engineering, Inc. Model P50Al Class C CW/FM Power Amplifier (1975). DC input +13.6VDC @8 amps for rated output. RF input 1-3 w., output 40-60w. 140-165mHz. Protected for any VSWR. COR switching w/LED indicator. Spurious output filter, unique low freq. negative feedback circuit. Connectors are low loss 50 ohm BNC. Price class \$139.

Other M-Tech Power Amplifiers: (1975 and before)



MODEL P15A1 — 1-3 W input 12-25 W output. 13.6 V at 2 Amps \$55 ppd. MODEL P50A1 — 1-3W input 40-60W output. 13.6V at 8 Amps \$139.

MODEL P50A10 - 1.5-15 W input 12-65 W output, 13.6 V at 6 Amps \$98 ppd.



PRA Industries (formerly Price Research Associates) Model PRA 10/80 R.F. Amplifier (1975). 10w. input from 2-meter transceiver produces 80 watts out with 13.6VDC input. Compact 4x6x 3". Assembled. Price class \$93.



Price Research Associates (PRA) Model Mini-AMP I Kit (1975). Use with low power or hand-held 2-meter units puting out .1 to 2 watts. 1 watt of input will produce 25 watts output. Complete kit including carrier operated relay. No alignment required. Price class \$49.95.



Regency Electronics Model HR-440 12-Channel 440 MHz FM Transceiver (1975). NBFM from 420 to 450 MHz, factory tuned 442-448 MHz; 10 W power output; sensitivity .5uv for 20db quieting; selectivity 6db at 7kHz; AFC with ±6kHz range; squelch; final amp. VSWR protection. 12 channels; deviation adjustable 0-10kHz (factory set to ±5kHz; comes with xmit & rcve xtals for 446 MHz, PTT ceramic mic., mounting bracket. Operates 11.5-14.5VDC at 4 amps max. Price \$349. P-109 120VAC base power supply, provides 13.8V DC, regulated, at 4 A. for Regency gear, \$45.



Specialty Communications Systems Power Amplifiers (1975). Selectable bias: Linear class AB for SSB, Class C for FM. No tuning accross entire Amateur band. Fully VSWR and reverse voltage protected. Variable T-R delay on SSB and CW. SSB mode also usable for low power (10w) FM. All solidstate. Models showing input & output power w/prices below:

2 METER 2M10-140L 2M30-140L 2M10- 70L

\$199.95 \$179.95 \$139.95 10W IN, 140W OUT 25-30W IN, 140W OUT 10W IN, 70W OUT 220 MHz 1.3M10-120L 1.3M30-120L 1.3M10- 60L

\$219.95 \$199.95 \$159.95 10W IN, 120W OUT 25-30W IN, 120W OUT 10W IN, 60W OUT



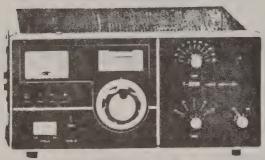
Spectrum Communications Spec Comm 512 2M FM Portable with "Snap Pack" Modules (1975) Feature clip-on Nicad battery pack, A.C. supply, and 25 watt amplifier for versatile portable, mobile, or fixed station use. 5 watt output, 12 channels, hot carrier diode mixer, MOSFET front end for .3 uv for 20db quieting sensitivity, trimmers on all xtals, sharp IF selectivity 80db @±30kHz, single conversion receiver for spurious resp. rejection, electronic T-R switching, large 3" speaker, reverse polarity and final xistor protection, use inexpensive TR-22 Xtals. Fast, sensitive squelch. LED btry. voltage indicator. 24x 6x8". Ceramic mic. included. Price \$249.95 Spec Comm 560 same but 6-channels. \$224.95



Standard Communications Corp. Horizon-2 2-Meter FM Transceiver (1975). A 12-channel (3supplied:94/94 52/52 & 16/76) 25-watt Transceiver. Freq. range 144-148mHz center tuned to 146.94 and includes the low and high end CAP and MARS frequencies. Glass epoxy circuit board, TX and RX trimmers, .4uv senitivity, -65db minimum selectivity, 3 watts audio, selective front end ceramic filter, built-in front facing speaker, 6x2x9". Price class \$295.



Tempo Model Tempo One DIGITAL SSB Transceiver (1975). 5-band 80 thru 10 meter coverage, 300w. PEP input SSB, 240w.CW; VFO range 500kHz(5-5.5 MHz); digital freq. readout to nearest 100 Hz; selectable USB, LSB; built in 100-kHz xtal cal., VOX; xmtr ALC, receiver sensitivity .5uv for 10db S/N; receiver clarifier control and AGC; CW sidetone oscillator; 13\[\frac{1}{2}\] x5\[\frac{1}{2}\] x1\[\frac{1}{2}\] D. Separate AC or DC power supply required. Price class \$498. Same as above without digital readout(dial calibrated in 1-kHz increments) \$399. AC-1 117/230VAC 50/60 Hz P.S. \$99. DC-1 12VDC p.S.\$110. VF-1 ext.VFO \$99.



Tempo Model T-2000 Linear Amplifier (1975) Uses two Eimac 8873 grounded grid triodes cooled through a large heat sink. A full 2KW PEP input for SSB operation and amateur band coverage 80-10 meters. Has a built-in solid-state power supply, antenna relay, a relative RF power indicator. Companion to the Tempo One transceiver. Wired, \$795.



Tempo CL-146A 2-Meter FM Transceiver (1975) 12-channel capability; freq. range 140-160mHz; 13 or 3 watts RF power output; dual conversion superhet receiver; RF output/S-meter, internal speaker, dynamic mic., completely solid state, multifrequency spread of 2mHz; 2w. audio output, operates 11-16VDC, 2.36x5.9x7.66"D. Supplied 1 pair 146.94 simplex xtals, mounting bracket, power cord, mic. w/coil cord. \$239. PS-3 regulated 120VAC pri. 13.8VDC out Pwer supply \$39.



Tempo 2002 2-Meter Power Amplifier (1975). Uses a pair of Eimac 8874 tubes to provide 2000 watts PEP input on SSB and 1000 watts input on CW and FM. A completely self-contained unit in desk-mount cabinet with internal solid state power supply, builtin blower, and RF relative power indicator. \$695.

Tempo 2006 6-Meter Power Amplifier (1975). Same as the Tempo 2002 above except for 6-meters. \$695.



Tempo Model 100AL10 Linear 2-Meter Solid State Amplifier (1975). Operates in the VHF freq. range of 144-148mHz. 100 watts output with 10 watts of drive in. Said to increase range and clarity of SSB and other communication, distortion free. Modern solid state technology. Microstrip design on glass epoxy circuit boards, resistance to damage from shock or vibration.



Ten-Tec Triton IV 5-Band Transceiver (1975). Solid state, medium power 200w. input, 3.5 through 29.7mHz coverage, instant transmitter tune, full break-in CW, excellent SSB quality, pulsed crystal calibrator, SWR indicator, selective CW filter, base, portable, mobile operation, on 12VDC. Push-pull final with gold metalized zener protected transistors, crystal heterodyne VFO for stability and uniform lkHz readout resolution, 8-pole I.F. xtal filter for selectivity, IC double balanced mixer for improved spurious rejection, front panel ALC threshold control, LED indicators for offset tuning, sequentially keyed mute, AGC and xmtr circuits for well shaped clickless CW. Price class \$699.



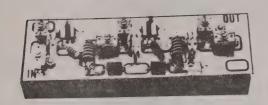
Vegas Radio Little Vega I Amplifier for Hand Held Units (1975). 1-2 watts of drive input gives 25 watts out. 144-148 MHz. Carrier operated relay can be driven from 180mw. No tuning. Output short circuit protected. Easy to install and operate. Works on 12-14VDC. Kit \$49.95. Wired & Tested \$69.95.



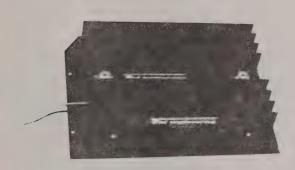
VHF Engineering TX432B Exciter Transmitter for 432 MHz (1975). Uses modular construction. Price class \$39.95.



VHF Engineering RX432C Receiver for 432 MHz (1975). Uses modular construction. Dual conversion with squelch and COR output. 4" x 6½". Range 432-470 MHz. Price \$79.95.



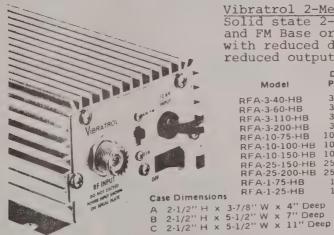
VHF Engineering Model PA432/10 432 MHz Amplifier Kit (1975). Solid state Class C using balanced emitter transistors for long life and high SWR protection. For FM mobile or fixed operation. 12 db nominal power gain, input power 2 watts max. 10 watts out. Operates 12-14VDC negative ground; insertion loss less than 1db on receive; 50% duty cycle. Basic kit(PC board, heat sink, all components less case, connectors, automatic switching) \$49.95.



VHF Engineering High Power 2-Meter RF Amplifiers (1975). All solid state, strip line design, high efficiency, broad band, class C using balanced emitter transistors for long life and high SWR protection. For 2-meter FM fixed or mobile use. Operate on 12-14VDC, insertion loss less than ldb on receive, 50% duty cycle or less rating, RF sensing relay switched. 7"x10½"x3". 4 lbs.

Model PA140/10: 5-15 watts in for 100-150 watts out, typically 140 watts out for 10 w. in, gain of 12db, price class wired & tested is \$179.95.

Model 140/30: 15-40 watts in for 100-150 watts out, typically 140 watts out for 30 watts in, gain 7db. Price class wired & tested is \$159.95.



Vibratrol 2-Meter Power Amplifiers (1975 and before). Solid state 2-Meter Amplifier series for AM-CW-SSB and FM Base or Mobile use. All models will operate with reduced drive input of as little as 1 watt with reduced output. Supplied pre-tuned for the band of use.

RFA-3-40-HB 3 Watts 40 Watts 4 Amps 5 Watts B \$129.95 RFA-3-60-HB 3 Watts 60 Watts 7 Amps 5 Watts B 159.95 RFA-3-110-HB 3 Watts 110 Watts 14 Amps 5 Watts C 199.95 RFA-3-200-HB 3 Watts 200 Watts 24 Amps 5 Watts C 349.95 RFA-10-75-HB 10 Watts 75 Watts 8 Amps 15 Watts B 129.95 RFA-10-100-HB 10 Watts 100 Watts 13 Amps 15 Watts B 189.95 RFA-10-150-HB 10 Watts 150 Watts 17 Amps 40 Watts C 239.95 RFA-25-150-HB 25 Watts 150 Watts 17 Amps 40 Watts C 249.95 RFA-1-75-HB 1 Watt 75 Watts 9 Amps 5 Watts B 179.95 RFA-1-25-HB 1 Watt 75 Watts 3 Amps 4 Watts A 99.95	Model	Drive Power	Output Power	Current Drain	Max. Drive	Case Size	Price
	RFA-3-60-HB RFA-3-210-HB RFA-3-200-HB RFA-10-75-HB RFA-10-150-HB RFA-25-150-HB RFA-25-200-HB RFA-275-HB	3 Watts 3 Watts 3 Watts 10 Watts 10 Watts 10 Watts 25 Watts 25 Watts 1 Watt	60 Watts 110 Watts 200 Watts 75 Watts 100 Watts 150 Watts 150 Watts 200 Watts 75 Watts	7 Amps 14 Amps 24 Amps 8 Amps 13 Amps 17 Amps 17 Amps 22 Amps 9 Amps	5 Watts 5 Watts 5 Watts 15 Watts 15 Watts 15 Watts 40 Watts 5 Watts	B C C B B C C C B	159.95 199.95 349.95 129.95 189.95 239.95 249.95 299.95 179.95



Wilson Electronics Model WE-224 2-Meter FM Mobile Transceiver (1975)
Features include 24 channels, 1 priority channel, selectable 1 or 10w. out, 10.7 monilithic filter installed, 455kHz ceramic filter, numerical readout on each channel, built in adjustable tone burst generator, front panel tone encoder control, individual trimmers for both TX/RX, MOSFET front end, helical resonator, NBFM - 15kHz channel separation, built in spkr and dynamic mic. included; mobile mtg. bracket included. Freq. range 144-148mHz. Operate fixed or mobile on 13.5VDC. 6½x2½x 9½"D. 5½ lbs. Price \$209.95.



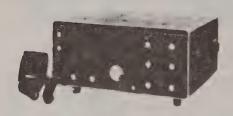
Wilson Electronics Corp. Model 1405SM Hand Held 2-Meter FM Transceiver (1975). 5-watts, 6 channel operation, individual trimmers on all TX and RX Xtals, S Meter/Battery Indicator, 10.7 and 455 KC IF freqs., .3uv sensitivity for 20db quieting. Microswitch mic. button. Rubber flex antenna, leather case, 52-52 xtal, switchable 1 & 5 watts output, operates 12VDC with nicad batteries included, 8-7/8x1-3/4x3". Price class \$280. ACCESSORIES: SM2 speaker mike \$29.95; BC2 Battery charger \$37, XF-1 10.7 monolithic IF xtal filter(installed) \$10; TE-1 continuous Sub-audible tone encoder(installed) \$40.



BC-1/BC-2 Nicad Battery Charger with regular and trickle charge feature for use with Wilson Hand-Held Transceivers models 1402SM and 1405SM. Price class \$36.95.



Yaesu FT-101E Transceiver (1975). Mobile/Base Station covers 160 thru 10 meters; operates 12VDC or 110/230V AC on built-in power supplies; 260w. PEP SSB, 180w.CW, 80w. AM; built-in RF speech processor and fully adjustable VOX; automatic break-in CW with sidetone; 25 or 100kHZ selectable calibrator; built-in WWV/JJY reception; adjustable carrier level for tune-up and Novice operation; built-in speaker; 8-pole SSB filter; antenna impedance 50 to 75 ohms unbalanced; freq. response 350-2700Hz±3db; comes with 50,000 ohm dynamic mic. \$749. Model FT-101EE, same as above but less speech processor, \$659.



Yaesu FT-201 Transceiver (1975). Solid state, 80 thru 10 meters. Price class \$629.



Yaesu FT-221 2-Meter SSB-FM-CW & AM Transceiver (1975). Features include phase-lock loop circuitry for stable clean signals plus modular plug-in boards for easy maintenance. Complete VFO coverage of 144-148mHz and 88 crystal-controlled channels. AC/DC operation for base or mobile work. 12 watts SSB PEP, 14 watts CW or FM. 2.5 watts AM. Built-in speaker. Price class \$679.



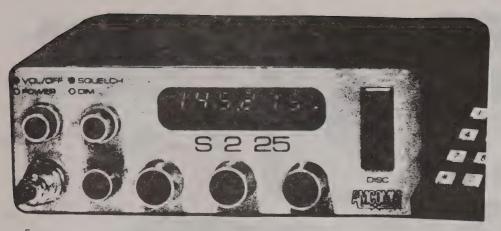
Yaesu FT-620B 6-Meter SSB-CW & AM Transceiver (1975). Complete 6-meter band coverage in 8 500kHz segments with lkHz VFO readouts across the entire band. Up to 4 crystal-controlled channels in each of the 8 band segments. Offset clarifier, noise blanker, AGC, ANL. 24 watts PEP on SSB, 20 w. CW(50% duty cycle), and 8 w. AM. AC/DC powered for mobile or base use. \$449.

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Model No./Name
                          See....
                                         Type
                                                     Year First Marketed
 B Series VHF Engineering Series of Repeaters 1976
BC SP H/L Electra Bearcat Scanner 1976
 BC SP U Electra Bearcat Scanner 1976
 Black Cat Wawasee Electronics Amplifier 1976
 BLA, BLC, BLD, BLE - prefixes to a series of VHF Engineering amplifiers 1976 & before Blue Line VHF Engineering Amplifier series 1976
CA-26A CAI Transceiver 1976
CA-38 CAI Transceiver 1976
CR-276 CR Electronics Transceiver 1976
 Econ-O-Line TPL Communications Amplifier series
 EPC 144-B Electronic Prototype Consultants (Elprocon) Transmitter 1976
FL-101 Yaesu Transmitter 1974
FM50-10SXRII Kyokuto Denshi Kaisha Transceiver 1976
 FM-76 Clegg Transceiver 1976
FMt440 Spectrum International(SI) Transverter 1976
FR-101 Yaesu Receiver 1976
FRG-7 Yaesu Receiver 1976
FT-101E, -101EE Yaesu Transceiver
FT-221 Yaesu Transceiver 1975
FT-301D Yaesu Transceiver 1976
 FT-620B Yaesu Transceiver 1975
FTV-250 Yaesu Transverter 1976
Gold Line Yaesu Model FT-301D Transceiver 1976
GTX-202 Genave Transceiver 1976
HA-146 Lafayette Transceiver 1976
HF-10-100L Specialty Communications Systems(SCS) Amplifier 1976
HR-312 Regency Transceiver 1976
HR-1680 Heathkit Receiver 1976
HW-8 Heathkit Transceiver 1976
HW-2036 Heathkit Transceiver
IC-22S ICOM Transceiver 1976
IC-31 ICOM Transceiver 1976
IC-202
          ICOM H.H.Transceiver 1976
           ICOM Transceiver 1976
ICOM Transceiver 1975
IC-211
IC-215
IC-245
            ICOM
                    Transceiver
                                      1976
IC-502
          ICOM H.H.Transceiver 1976
JB2000 Wawasee Electronics Amplifier 1976
LA-144 Electronic Prototype Consultants (Elprocon) Amplifier 1976
Mark-3 Clegg Transceiver 1976
MM-2C Northern Radio Co. H.H.Transceiver 1976
MMt432 Spectrum International(SI) Transverter
MR-2 Tempo Monitor-Pager 1976
MR-3 Tempo Monitor-Pager 1976
MS-2 Tempo H.H.Receiver 1976
Multi-7 KLM Transceiver 1976
Multi-11 KLM Transceiver 1976
Multi-2000A KLM Transceiver 1976
Multi 2700 KLM Transceiver 1976
Multi-U-11 KLM Transceiver 1976
MV20 TRW Semiconductors Amplifier module 1976
MV30 TRW Semiconductors Amplifier module 1976
Opti-Scan SBE Monitor 1976
PA-10-70CL KLM Amplifier 1976
PA-prefix KLM Amplifier series 1976 and before
QR-666 Kenwood Receiver 1975
R-300 Kenwood Receiver 1976
RPT 144B, -220B, -432B VHF Engineering Repeaters 1976
S225 Amcomm Transceiver 1976 Sidekick Linear Portable System.
                                             Specialty Communications Systems (SCS) Amplifiers
designed to be added to portable Hand Held Transceivers 1976 SCR-1000 Spectrum Communications (SC) Repeater 1976
SR-206 Scientific Radio Systems Transceiver 1976
Super Amp Dentron Radio Amplifier 1976
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T20 Hamtronics Tripler/Driver module 1976
T40 Hamtronics Exciter module 1976
T80 Hamtronics Amplifier module 1976
T1000 Trans World Communications (TWC) Amplifier 1976
TR-33C Drake Transceiver 1976
TR-2200A Kenwood Transceiver 1976
TR-7200A Kenwood Transceiver 1976
TR-7400A Kenwood Transceiver 1976
TS-820 Kenwood Transceiver 1976
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VHF/One Tempo Transceiver 1976

1.3M10-60L Specialty Communications Systems (SCS) Amplifier Prior to 1976
2M3-30L, -140L Specialty Communications Systems (SCS) Amplifiers Prior to 1976
2M10-70L Specialty Communications Systems (SCS) Amplifier 1976
2M10-140L Specialty Communications Systems (SCS) Amplifier Prior to 1976
6M10-100L Specialty Communications Systems (SCS) Amplifier Prior to 1976
10D02 Tempo Amplifier 1976
10S Trans World Communications (TWC) Transceiver 1976
13-510 Midland Transceiver 1976
40D02, -D10: Prefixes to Tempo amplifier series 1976 and before
70CM2-10L, -40L Specialty Communications (SCS) Amplifiers Prior to 1976
70D02, -D10, -D30: Prefixes to Tempo amplifier series 1976 and before
80A02, -A10, -A30: Prefixes to Tempo Amplifier series 1976 and before
100-AL10-B Tempo Amplifier 1976
130A02, -A10, -A30: Prefixes to Tempo amplifier series 1976 and before
160-10L Dentron Radio Amplifier 1976
702, 702B TPL Communications Amplifiers 1976
2020-SM Wilson H.H. Transceiver 1976
3750 Hy-Gain Transceiver 1976
3806 Hy-Gain Transceiver 1976
4502-SM Wilson H.H. Transceiver 1976

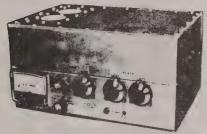


Amcomm (Sounds & Visions Inc.) Model S225
2-Meter FM Transceiver
Synthesized, 800 frequencies in 5kHz steps, following Xmit specs: 144 to 148mHz, 4 panel selectable splits, 1-25 watts variable output, -60db spurious & harmonic, 6 digit 7 segment HP LED Freq display. Optional Plugin touchtone encoder \$50.
Receiver specs: 143 to 148.995MHz, sensitivity .35uv @50% audio. 20db quieting .5uv. 4

74x25/8 x10"D. Discriminator meter. Price class under \$500. Marketed in 1976.



ARCOS (Amateur Radio Component Service) UHF Transmitting Converter (1976). 28MHz or other input freq. of your choice, four w. on 432MHz, 6w. on 220, 8w. on 144 nominal output. Approx. 1 watt drive required (Example FT101 low output). Uses 2)6939 tubes, has separate power supply with built in meter for \$75. Local oscillator chain is solid state. Mounted in LMB enclosure w/tubes, power supply and meter ready to operate \$265.



ARCOS 432 MHz Amplifier (1976). Tuning range 415 to 440 MHz, from 8 to 30 w. drive for 190 to 1000 w. output, uses 2) 4X150A, 4CX250B or 4CX250R. Forced air 300-350 CFM blower. Power requirements: 2000VDC @1A; 360VDC @50 MA; 6VAC(adjustable) @6A; Bias adjustable from 0 to -120 VDC(suitable power supply is available from ARCOS). Price class \$340 w/o tubes. 64x12x84"D.



Clegg FM-76 222 MHz FM Transceiver (1976). 12 channels with individual trimmers for receiver and transmitter crystal netting. .35uv sensitivity. 10 watts output. Big clear panel meter. Compact size. Price class \$189.50 w/mic. & 1 set of Xtals.



Clegg Mark-3 2-Meter FM Transceiver (1976).

12 channels with individual trimmers for receiver and transmitter channel netting.

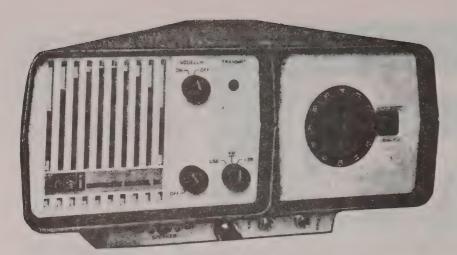
35uv sensitivity, 15 w. output on 146MHz.

Big clear S-meter/RF output meter. Compact.

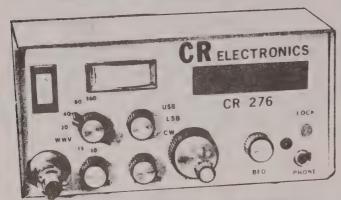
Price class \$189.50 w/mic. & 1 set of Xtals.



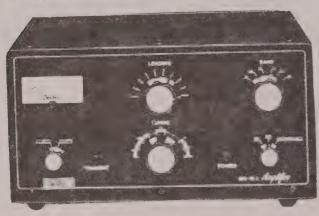
CAI (Communications Associates Inc.) CA-26A SSB Transceiver (1976). 4 channels within freq. range of 2.7 to 15MHz. 100w. PEP out. Receiver solid state w/tube transmitter drive and final. Selectable sideband, compatible AM and CW modes. Side-tone keying monitor. Has built-in circuit for freq. netting, built-in CW tone oscillator which permits tuneup w/o external audio generator. Modulation indicator, automatic envelope compression with minimum distortion, automatic gain control. Compact 16.51x31.75x33 cm. Completely sealed.



CAI CA-38 SSB Transceiver (1976). Solid state, 12 preprogrammed channels which can be set across entire 2-18mHz freq. range or grouped in any band, 20w. output, SSB AM or CW modes. Back lighted display window shows channel. Xtal ovens for ±20Hz freq. stability, -62db harmonic suppression, automatic noise compensated squelch. 3 separate power supplies available for 12VDC, 24-32VDC, or 115/230V AC operation. Separate 150 w. solid state linear amp. also available, overload protected.



CR Electronics CR-276 Transceiver (1976). Covers 10 thru 80 plus 160 meters & WWV. Solid state, 200 w. PEP input. Has digital lock circuit enabling operator to extend the 100Hz resolution of the 6-digit LED display to 10Hz and the use this resolution to control the tunable oscillator. Receiver has 3) 6-pole crystal filters, selectable CW or USB or LSB. Transmitter solid-state broadband design eliminating need for loading and tuning controls. S/RF wattmeter. 4x8x10½". Price class \$895.



Dentron Radio Co., Inc. "Super Amp" TM...

Dentron Radio Co., Inc. Model 160-10L Amplifier(1976). 160 thru 10 meters, 1200 w.

PEP on SSB continuous, 1000 w. DC on CW,
RTTY or SSTV, "on demand" variable forced
air cooling system, 4 - 81lA triodes in GG
mounted in cooling chamber, broadband input and output circuit, 70w. drive for the
maximum legal input, output 50-75 ohms Pi
network, VSWR not over 2 to 1. Self-contained 110/220VAC 50-60Hz w/automatic circuit breaker protection. \$499.50. Meter
selector switch selects plate, voltage,
plate current. Built-in ant. changeover
relay. 7½x14½x14"D. 43 lbs. Covers MARS
freqs. without modifications.



Drake TR-33C 2-Meter FM Transceiver (1976).

12 channels, only 1 xtal per channel required for simplex or repeater operation on any channel. 146-148MHz, 5-position sw. determines xmit freq. offset: Simplex ±600 kHz. Operates 13VDC for 1.5w. nominal RF power output; audio output nominal 1 watt into built in or ext. 8 ohm spkr. All FET front end receiver w/.5uv sensitity, xtal filter on 10.7mHz lst IF, ceramic filter on second 455kHz IF. New low drain circuit on squelched receive. Nicad rechargeable batteries supplied. Built in charger, AC & DC power cords supplied, telescoping screw on ant. supplied, also carry strap. 5½x2½x 8½". 4.4 lbs. S/RF/batt.V. meter. \$229.95.



Electra Company Bearcat Hand Held Scanners (1976). 4 channel operation w/LED channel indicators and individual channel lockout switches, Auto-manual selector switch and vol. and squelch control. Supplied with telescoping ant. w/provision for flexible rubber ant. 6½x1½x2-3/4", 11 oz. 4 type AA dry cells used for power. Audio output 250 mw. Scan rate 8 channels per sec. Features include belt clip, jacks for ext. ant., earphone, charger, and AC adapter. Both priced at \$129.95. BC SP H/L 4 channels, 36 to 44mHz - 152-162mHz. 6uv sensitivity. BC SP U 4 channels 452-468mHz 1.2uv sensitivity. Crystals for desired frequencies of purchaser available.



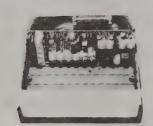


Electronic Prototype Consultants(Elprocon) EPC 144-B 2-Meter FM Transmitter(1976). 2 Channels, 144-148mHz, power output 2 watts typical, 1 watt min. @12.5VDC, 50 ohm output imped. Narrow band FM ±5kHz. 2xlx3-3/4"L. Assembled/tested \$32.95. (Circuit board no case). Rugged balanced emitter xistor used in the output.

Electronic Prototype Consultants (Elprocon) LA-144 2-Meter Power Amplifier (1976). Frequency 144-148Mhz, lw.in, 20w.out typical; Maximum RF output power 30w., max. RF input 5w. Supply voltage 13.6VDC. Virtually burn-out proof balanced emitter output transistor; 50 ohm input & output imped. 2xlx3½"L. Assembled, tested less case, connectors, heat sink. \$39.95.



Genave GTX-202 2-Meter FM Transceiver (1976). 22 Channels xtal controlled, 30 watts output Hi, l w. in Lo position, 50 ohms imped. operates 13.6VDC. 144 to 148 mHz. Receiver dual-gate MOSFET front end .25uv sensitivity, double conversion, 8-pole crystal filter. Features include a massive heat sink to maintain power on transmit. 101x61x21"H. 6 lbs. \$239.95.

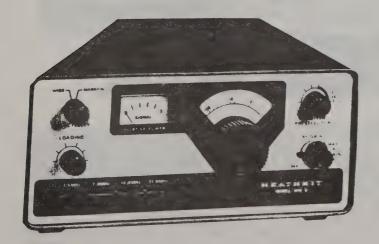


Hamtronics, Inc. T40 2-Meter FM Exciter Module (1976). 11 channels, output adjustable to 200mw by power control pot. Sockets provided for HC-25/U series-resonant 12mHz Xtals. Individual adjustment of each channel freq. Symmetrical modulation compatible with carbon or transistorized dynamic mic separate mic. gain, deviation controls, shielded tuned circuits minimize harmonics and spurious radiation. Assembled G-10 PC board 3x7½x1". Powered by +13.6VDC @70 ma. Designed to slide into groves of a companion cabinet (\$24.95) or separately stand-off mounted. Kit \$39.95



Hamtronics, Inc. T20 Tripler/Driver Kit to provide 432-450 MHz from T40 Exciter described above...\$19.95. PC board, provides 200mw output from 200mw 2-meter drive.

Hamtronics, Inc. T80 RF Power Module (1976). Employs the new "RF Module" introduced by TRW and others. Self-contained 13.6VDC @2-4 amps, 30-50% efficiency, provide 20-25 watts output on 2 m. or 13-15w. on 432-450mHz w/200mw of drive. No tuning, includes decoupling components, heat sink, VSWR protection, unaffected by changes in antenna imped. due to weather. Assembled, leads provided. \$79.95.



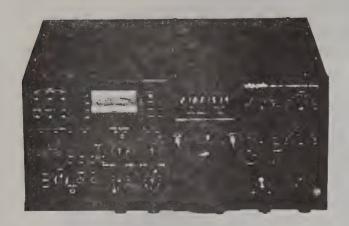
Heathkit HW-8 ORP CW Transceiver (1976) Covers the CW(Code) sections of 80,40, 20 & 15 meter bands amateur, DC power input 3.5watts max. 4-bands push-button selected, direct-conversion recvr w/RF stage, 2-position active audio filter. Sensitivity .2uv for solid copy. Includes adjustable sidetone volume, diode band switching and break-in keying w/adjustable T/R delay plus RF gain control, built-in headph. jack, front panel relative power meter & operates any 12VDC source. Excellent freq. stability and fixed freq. offset all bands on transmit. Kit \$129.95. 94x84x44". 4 lbs.



Heathkit HR-1680 SSB/CW Receiver (1976). Covers 500 kHz segments of the 80,40,20 and 15 meter Amateur bands plus two 500 kHz segments for the lower 1 Mhz of 10 meters. Solid-state, operates 120 or 240VAC or 11.5 to 15VDC, mode switch selects LSB,USB and CW with fast or slow AGC automtically engaged. Double-conversion features a double-tuned RF stage, 4-pole xtal filter and 2-stage active audio filter for sharp CW bandpass. Excellent freq. stability. Has S-meter, AF & RF gain controls, preselector. Large easy-tune spinner and dial calibrated in 500kHz segments, flip switch to change bands. Mode and function selectors, front panel headhpone jack, built in 100kHz xtal calibrator. 12-3/4 x6-3/4x12". 9-3/4 lbs. "101" series styling. Kit \$199.95. Matching spkr HS-1661 \$19.95 Receiver sensitivity less than .5uv for 10db S+N/N for SSB operation. Selectivity: Narrow for CW 250 Hz at 6db down; 2.1 KHz minimum at 6db down for SSB is the IF selectivity



Heathkit HW-2036 Synthesized 2-Meter Transceiver(1976). Front panel switch selects any frequency in any 2 MHz segment of the 143.5 to 148.5 range. You select the last 4 digits, 3 with lever switches which display the freq. directly and the last with a 0/5kHz toggle switch which makes ALL 2-meter frequencies in the band available. If you accidentally dial up an out-of-band freq., the transmitter will not key. Output 10w. on 13.8VDC power. Spurious -70db below carrier. Receiver sensitivity .5uv at 12db SINAD. 8-pole IF xtal filter for excellent selectivity. Has built-in continuous tone encoder with 3 customer-adjusted tones selectable on the front panel for access to most repeaters. Has built-in simplex, plus and minus 600kHz offsets, and an aux. position to add a xtal for any other freq. Operates 12VDC. 2-3/4x8\frac{1}{2}x9-7/8\text{\text{"D}}D. 6\frac{1}{2} \text{ lbs. Kit \$269.95} with standard microphone. Options: HD-1982 Micoder (Electret condenser mic. and compatible auto patch encoder) \$49.95; HWA-2036-3 AC power supply for fixed station use.



Hy-Gain Electronics Corp. 3750 Transceiver (1976). Covers all amateur bands 160 thru 10 meters. Utilizes phase lock loop circuitry, dual-gate MOSFET's at critical RF amplifier and mixer stages, narrow band SSB xtal filter and a 50kHz T-notch filter. Includes audio and mic. compression, ALC, S-2002 output power tubes, stable VFO w/less than 100 Hz drift after warmup, rotating dial, electronic 4-place digital readout to 100 Hz for pinpoint accuracy, a memory circuit for remembering frequencies with a flip of a sw. A 10MHz WWV receive position eliminates need for a crystal calibrator. SSB sensitivity 25 uv for 10db S/N+N ratio, CW sensitivity less than .15uv for 10db S/N+N ratio. Operates CW LSB or USB. Input power 200w.(100 on 10M). 120VAC 50/60 Hz(can be rewired for 240VAC). 16-3/4x7x13-5/8". 44½ lbs. Selectivity: 2.4 KHz & 400Hz -6db down. Price class \$1895. Matching speaker 3854 and External VFO w/7 crystal controlled channels #3855 available.



Hy-Gain Electronics Corp. Model 3806 2-Meter FM Hand-held Transceiver (1976). 6-channels, 144-148MHz range. Features include speaker/microphone, high impact ABS plastic case, voluem, squelch, 6-position channel selector, transmit LED indicator, combination S-meter, battery condition meter, separate on-off power switch, telescoping antenna that collapses completely into the case, or can use a flexible antenna, jacks for external ant., earphone, and external 12VDC. 2 MOSFET RF amplifier stages plus MOSFETs in the 1st & 2nd mixers. Monolithic xtal filter and 8-pole ceramic filter. Freq. multiplication factor of 12 allowing use of high stability thicker xtals. Internally adjustable mic. preamp. Available accessories include AC & DC chargers, carrying case, nicad power pack, Touch tone pad. One set of 146.52 simplex crystals are supplied with the unit.



ICOM IC-22S VHF FM Transceiver (1976) No crystals, a freq. synthesizer can be preset to any 15 KHz channel between 146 and 148 MHz by the diode matrix board. 23 channels of your choice. Solid state engineering. The frequency may be offset by 600 KHz higher or lower than the receiver frequency. Price class \$289.



ICOM IC-215 2-Meter FM Transceiver (1976). 15 Channels, (12 on dial, 3 priority), portable, front mounted controls and top mounted fully callapsible antenna; compatible mount feature for flexible antenna, external power and antenna easily accessible if desired, narrow filter (15kHz compatible spacing), dual power (3 watts high, 400mw low, nominal), lighted dial and meter. Supplied w/5 popular channels, handheld mic., protective case, shoulder strap, connectors for external power & spkr, 9 long-life C batteries. Price class \$229.



ICOM IC-31 450MHz FM Base Station Transceiver(1976). Freq. range 440-450MHz, 26 channels, power output hi 10 watts variable to 1 watt, Sensitivity .4uv for 20db quieting, .3uv for 12db SINAD; bandwidth(transmitted) 15KHz w/5KHz deviation. Has SWR bridge built in to front panel and forward mounted 9-pin socket. 111x230x260mm, 7.2kilos wt.



Portable/

ICOM IC-202 Hand Held 2-Meter SSB Transceiver(1976). Power output 3 watts PEP; sensitivity .125uv for 10db S+N/N ratio, audio output about 1 watt. Features include IF noise blanker, switched dial lights, AGC, ALC, built-in batteries(9 C cells), internal whip ant., external power jack, antenna jack, speaker jack. Includes a VXO covering 2 ranges as it comes from the factory: 144-144.20 and 144.20-144.40. 2 additional ranges are available or an external VFO can be used. VXO calibrated in 5 & 10 KHz steps and can be set within about 1 KHz of a desired freq. Has Receiver Incremental Tuning(RIT) so receiver can be tuned independently from xmiter. RIT has center-off detent. CW output of approx. 4w. can be achieved by front panel switch which sets up a carrier shift of about 1 KHz for automatic offset. Has S-meter/RF output indicator. No squelch. Price class \$275.

Portable/
ICOM IC-502 Hand Held 6-Meter SSB Transceiver(1976). Has appearance and features similar to the IC-202 above but for 6-Meter SSB, 3 watts PEP output, IF noise blanker, 800 KHz VFO. Price class \$275.



ICOM IC-211 Multi-Mode 2-M. Transceiver(1976). Single-knob frequency control, compact 144 to 148 MHz Xceiver with FM, USB, LSB and CW mode operation. Fully synthesized in 100 Hz or 5KHz steps, with dual tracking, optically coupled VFO's displayed by 7-segment LED readouts, providing any split. Unique ICOM developed LSI synthesizer, the IC-211 "rolls through 4 megahertz as easily as a breaker through the surf". Sensitivity: SSB .25uv for 10db SINAD; FM .4uv for 20db Q.S. Selectivity: SSB ±2.4KHz at -60 db; FM ±16KHz at -60db. Operates internal 117VAC or 13.8VDC. Power output 10W PEP SSB & 10W CW or FM. 111 x 241 x 264mm, Wt. 6.8 kg.



Meter Transceiver (1976). 144-148MHz range, LSI synthe-sizer with 4 digit LED readout. Operates 13.8VDC in FM mode (SSB & CW with optional adaptor), Tuning knob has 50 detent steps. Syn thesizer command freq. displayed in 5KHz steps from 146 to 148, 100Hz from 144 to 146MHz. Transmit and receive frequencies are independently programmable on any separation. Comes equipped with a multiple pin Molex connector for remote control. Xmtr output is 10 watts. Deviation ±5KHz. Carrier suppression

ICOM IC-245 FM 2-

40db, spurious radiation -60 db or less below the carrier.

Receiver sensitivity .5uv for 10db S+N/N or better SSB or CW, .6uv for 20db quieting on FM. Large Scale Integrated Circuitry employed. 90x155x235mm, weight 2.7 kg.



Kenwood TR-7200A 2-Meter FM Mobile Transceiver (1976). Channel 7 Priority (automatically returns to channel 7 when it senses activity there). 146-148 MHz in 22 channel capability, 6 supplied. Solid state, operates 13.8V DC. Ant. imped. 50 ohms. Freq. adjusting trimmers on every crystal. Selectable power outputs: 10w or lw). Adjustable freq. deviation (factory set ±5kHz). Automatic VSWR protection. Receiver sensitivity. 5uv for 27db. Sectivity 12kHz -6db. 74x24x94, 54 lbs. Complete with dynamic mic, DC power cord, mobile mount, mike hanger, auxiliary connector and external spkr plug. \$249. Optional PS-5 AC/DC power supply with digital clock and automatic time control built in..\$79.



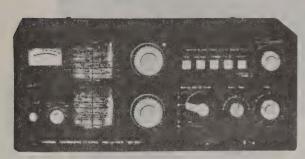
Kenwood TS-820 Transceiver(1976) Referred to as the "Pacesetter", features include full 160 thru 10 Meter Amateur Band coverage, QRM-killing IF shift, RF speech processor, husky 120/220VAC 50/60 Hz power supply, state-of-the-art PLL VFO system, RF negative feedback circuit, USB, LSB, CW, FSK modes, input power 200w PEP SSB, 160w DC on ative feedback circuit, USB, LSB, CW, FSK modes, input power 200w PEP SSB, 160w DC on FSK, Ant. imped. 50-75 ohms unbalanced, Receiver sensitivity .25uv, cw, 100w DC on FSK, Ant. imped. 50-75 ohms unbalanced, Receiver sensitivity .25uv, selectivity: SSB 2.4kHz -6db, CW(with optional filter installed) 500Hz -6db. The Digselectivity: SSB 2.4kHz -6db, CW(with optional filter installed) 500Hz -6db. The Digselectivity: SSB 2.4kHz -6db, CW (with optional filter installed) 500Hz -6db. The Digselectivity: SSB 2.4kHz -6db, CW (with optional filter installed) 500Hz -6db. The Digselectivity: SSB 2.4kHz -6db, CW (with optional filter installed) 500Hz -6db. The Digselectivity: SSB 2.4kHz -6db, CW (with optional filter installed) 500Hz -6db. The Digselectivity: SSB 2.4kHz -6db, CW (with optional state standard lmHz oscillator operating mode. The readout accuracy is determined by the standard lmHz oscillator operating mode. The readout accuracy is determined by the standard lmHz oscillator which is calibrated to WWV. Counter figures the frequency down to 10 Hz and the digselectivity operating mode. The readout accuracy is determined by the standard lmHz oscillator which is calibrated to WWV. Counter figures the frequency down to 10 Hz and the digselectivity operating mode. The readout accuracy is determined by the standard lmHz oscillator have greatly standard



Kenwood TR-7400A 2-Meter Transceivel (1976). Features a unique Continuous Tone Coded Squelch System (CTCS) which may be used for both transmit and receive or transmit only. Tone burst operation may also be used. Range: 144 to 147.995 MHz, FM mode, 800 phase-locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front locked loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front loop (PLL) frequency synthesized channels 5 kHz spaced, 4 MHz bandwidth. Front loop (PLL) frequency synthesize



Kenwood TR-2200A Portable 2-Meter FM transceiver (1976). Has 12 channel capacity, built-in telescoping antenna, connector for external antenna, internal nicad batteries w/120VAC charger. 146-148 MHz frequency coverage in 12 channels, 6 supplied. Hi-Lo power switch (for 2 w. or 400mw output). Sensitivity .5uv or less/26db S+N/N. Built-in speaker. 5½x2½x7½, 3-3/4 lbs. Complete w/dynamic mic., O-T-S carry case, cables, speaker/headphone plug and 10 nicad batteries. Price class \$229.



Communications
Kenwood QR-666 170 KHz - 30 MHz/Receiver(late 1975). Solid state, compact size, has 3-way AC/battery/external DC power supply for portable use or fixed station. Freq. range: 170 KHz to 30MHz(an optional SWL Bandspread drum is available). Built-in ant. jack for external antenna. Easy to read drum type dial for fast tuning. Dials eliminated but must be turned on manually when operating DC, a battery saving feature. Receives SSB, CW and Am. A good general coverage receiver for the SWL.



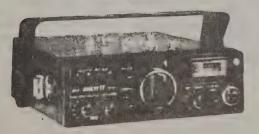
Kenwood R-300 Communications Receiver (1976). Shortwave listeners general coverage receiver w/full band coverage 170kHz to 30mHz. Receives AM, SSB and CW. Features large easy to read drum dials with fast smooth dial action. Band spread is calibrated for the 10 foreign broadcast bands, easily tuned with the use of a built in 500kHz calibrator. Automatic noise limiter. 3-way ac/battery/external DC power supply system



KLM Multi 2700 All Mode Transceiver (1976). Oscar Mode A(6/7A) received on a separate self-contained 29.5MHz receiver in addition to 2-Meter WBFM,NBFM, USB, LSB, CW and AM. Fully synthesized plus full VFO. Features include 8-pole SSB filter, 2 FM filters, VXO & RIT, LED readout on synthesizer, speech compression, AC/DC power supply, separate output and deviation meters, VOX. The VFO has a 5 to 1 tuning ratio. \$800. (VOX, AGC and gain controls accessible thru top port.)

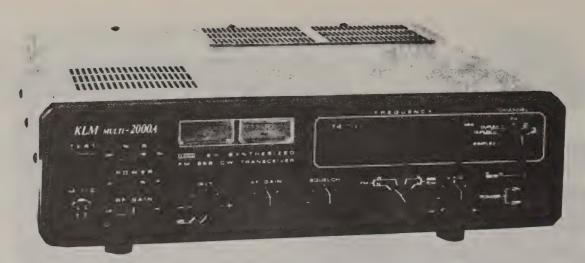


KLM Multi-7 2-Meter FM Transceiver (1976). Operates in the 2-Meter FM Amateur band portion, Crystal controlled but can be operated w/external VFO. NBFM, 10 w. power output. Has a sensitive double conversion receiver. Compact for mobile operation. Operates 12VDC. Price class \$239.



KIM Multi-ll 2-Meter Scanning Transceiver (1976). Provides continuous, sequential monitoring of 4 repeaters or other stations on both transmit and receive. A transmit control crystal, selected for simplex or repeater duplex as required, switches with each electronically-scanned position. Flip the "manual" toggle and break-in. Also includes 23 switchable, crystal controlled transmit and receive channels. All solid state, double conversion receiver, 2-stage crystal filter, 2 RF stages w/dual gate MOS FET, fractional uv sensitivity, squelch, RIT for receiver, ±5kHz, Freq. 144-146 or 146-148Mhz. S/RF power out metering, also

FM centering; 4-channel auto or manual scan on transmit or receive; NBFM, 10w output switchable to lw, tone osc. w/sw for test, control, etc. Operates 13.5VDC. External VFO or synthesizer input. 62x9x24"H. 4.4 lbs. Price class \$325.



KLM Electronics Multi-2000A Synthesized 2-Meter 4-Mode Transceiver (1976). Covers 144-148MHz, NBFM, WBFM, SSB (with both USB & LSB) plus CW, synthesized phase lock loop synthesizer, 10 watt power output, separate VXO and RIT for full between-channel tuning, simplex and/or 600KHz repeater capability, built in 12VDC and 115VAC power supplies, noise blanker, squelch, RF gain control, selectable 1/10w power output, sensitivity .3uv for 12db SINAD, built-in test(call) tone and touch-tone provisions. Select any of 200 channels in 10kHz steps by 3 dials. Includes 3 FM xtal positions for often used channels. Price class \$795.

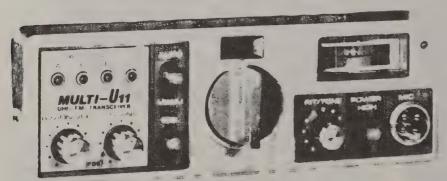


KLM PA-10-70CL Solid-State Power Amplifier for ECHO 70 or other similar equipment. 70 watts output, linear amplifier using high quality RF transistors and micro stripline construction. Broad band: covers 400-470mHz without tuning. Has RF-sensed automatic switching /manual override. Not affected by VSWR. Operates 13.5VDC 2x62x12"D. \$245.95.

Other KLM Power Amplifiers available in 1976 and previously. American made, emitter balanced and protected against high VSWR, short and open circuits. Microstrip circuitry for no-tuning, broad band operation, 144-148MHz (plus MARS) for VHF amplifiers, 400-470MHz for UHF models. Select a Class C amplifier for FM/CW, or a "linear" on SSB plus FM & CW. Operate 13.8VDC. Internal RF sensing or remote amplifier keying circuitry provides the automatic or manual T/R function. Put the amplifier on automatic standby or out of the circuit with the panel switch. High quality brand name xistors.

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FREQ. (MHz)	MODEL Number	PWR INP. (watts)	NOM. PWR OUTPUT (watts)	NOM. CUR. (amps)†	SIZE	PRICE
144-148	PA2-12B	1-4	12	2	A"	44.95
"	PA2-70B	1-4	70	10	C*	149.95
**	PA2-70BL♦	1-4	70	10	C.	159.95
,,	PA2-140B♦	1-4	140	20	D*	219 95
**	PA10-40B	5-15	40	5	B*	79 95
**	PA10-40BL	5-15	40	5	B*	89 50
"	PA10-70B	5-15	. 70	8	C.	129 95
11	PA10-70BL >	5-15	70	8	C*	139 95
,,	PA10-80BL >	5-15	80	10	C+	149 95
,,	PA10-140B	5-15	140	18	D.	189 95
.,	PA10-140BL	5-15	140	18	D°	199 95
"	PA10-160BL	5-15	160	22	D*	209 95

,,	PA30-140B	15-45	140	15	D*	169 95
,,	PA30-140BL 🗢	15-45	140	15	D*	179 95
219-226	PA2-70BC	1-4	70	10	C.	169.95
113 220	PA10-60BC	5-15	60	8	C.	149.95
**	PA30-120BC	15-45	120	15	D*	189.95
400-470	PA2-40C	1.4	40	7	C.	149 95
"	PA10-35C	5 15	35	6	B*	119.95
11	PA10-35CL	5-15	35	6	B°	139.95
"	PA10-70C	5 15	70	13	D.	225.95
"	PA10-70CL	5 15	70	18	D.	245.95



KLM Multi-U-11 Scanning UHF FM Transceiver (1976). Freq. range: any 4MHz segment 420 to 450 MHz. 23 manually switchable xtal controlled channels plus 4 auto-scan channels on both receive & transmit for continuous, sequential monitoring of 4 repeater or other stations. A transmit control crystal, selected for simplex or repeater duplex as required, switches with each electronically-scanned position. Just flip the manual toggle and break in. All solid-

State, double conversion receiver. 2-stage xtal filter, 2 RF stages w/dual gate MOS FET, fractional microvolt sensitivity. Squelch .5uv threshold. RIT for receiver ±5kHz Milti-function metering: Power out/"S" units/FM centering. NBFM, switchable lw.or 10W. output, protective circuit for output transistor. Tone osc. w/sw for test, control, etc. Operates 13.5VDC. External VFO or synthesizer input. 2½x6½x9". 4.4 lbs. \$379.



KLM Solid-State Linear Amplifier for use with KLM Multi-2000A or other exciters with 5-15 watt input (1976). Output power 160 Watts with 5-15w. input, SSB, CW, AM, FM. Broad band..144-148Mhz without tuning. Automatic RF switching. Operates 13.5VDC.



Kyokuto Denshi Kaisha, Ltd. FM50-lOSXRII 6-Meter Synthesized Transceiver (1976). All solid state, PLL digital synthesized. Covers 51.000-53.995MHz, 600 channels, 5kHz steps. 6 digit LED freq. readout, large & small coaxially mounted knobs select 100kHz and 10 kHz steps respectively, full automatic tuning of receiver front end, true FM, .25uv sensitivity, 15-pole filters plus monolithic xtal filter and automatic tuned LC circuits for superior skirt selectivity. lw. up to 15 watts output switch selected. Priority channel front panel switch selected. Dual meter provides S/power out readings. Fully regulated12v,9v,5v independent supplies. 12v regulator keeps out engine alternator noise and protects final xistor from overload. 2½x6½x 7½. Includes built in spkr, dynamic mic., external spkr jack, mobile mount, etc. \$389.



Lafayette Radio Electronics Corp. HA-146 2-Meter/Transceiver(1976) A Japanese imported 12-channel crytal-controlled solid-state, selectable lw. or 25w. phase-modulated FM, 144-148 MHz freq. range. Has priority switch, transmit light, jack at back for a tape recorder, jack for external speaker or headphone, a DIN-type socket for external tone encoder. Trimmers for both transmit and receive xtals. PA transistor mismatched antenna protected. Operates 13.8VDC. Price class \$280.



Midland Int'l Model 13-510 Synthesized 2-Meter FM Transceiver (1976). Covers 144-148 MHz, P.L.L. Synthesized, 400 frequencies in 10kHz steps + 400 more freqs. with 5kHz shif-up + 3,200 more with 4 available offsets for 4,000 total freq. capability. 25-watt output, large-scale LED digital readout, advanced phase lock loop tuning circuit. Duplex operation with any of 4 transmitter offsets is available at the touch of a button. Full-range variable squelch control, a large lighted S/RFO meter, duplex and TX indicator lights. Dual conversion superhet with AGC, FET front end, hip 2 resonator filter and ceramic filters in both RF stages. Switchable lw. or 25w. pwr output. A connector provided for tone burst and discriminator meter. 2-5/8x6-3/4x 9-5/8"D. Forward projecting spkr. Supplied w/pTT mic, Xtals for ±600 offsets.

Picture not available.

Northern Radio Co. Model MM-2C Hand-Held Single Channel SSB Transceiver (1976). Operates in the 1.6-10 MHz range, 5 w. PEP, solid state w/self-contained rechargeable batteries. Protected against ant. mismatch. Has temperature compensated crystal oscillator



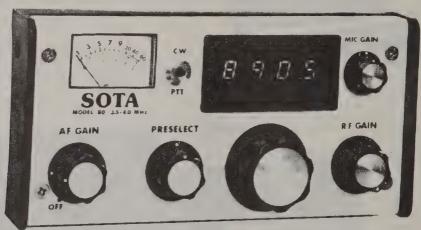
Regency Electronics HR-312 2-Meter Transceiver (1976). Produces 35 watts of power on the 144-148 Mhz amateur band. 12 simplex channels or 144 independent freq. combinations is possible by locking or unlocking a unique mode switch. Receiver sensitivity 15uv at 12db SINAD. Off-channel interference reduced by receiver's 75db adjacent selectivity and 65db intermodulation rejection. Price \$269.94 xtals, mic., mobile mount included.



SBE(Linear Systems, Inc.) "Opti/Scan" 10-Channel Scanning Monitor Receiver (1976). Frequencies are digitally synthesized. The operator can program the receiver to scan channels of his interest by programming a plastic card included with instructions and inserting the card into a slot on the front panel. Up to 16,000 freqs. may be selected. Any ten channels available between 30-50, 150-170, 450-470, 490-510 MHz, with the 2-meter amateur band 140-160 MHz available on special order. Receiver sensitivity. 5uv for 12db SINAD. Furnished with antennas that cover VHF-UHF bands mentioned above. Operates 115VAC or 13.8VDC. 2½x7-3/4x10"D. Price class \$369.95.



Scientific Radio Systems Inc. SR-206 HF SSB Transceiver (1976). Continuous coverage 1.6 to 30.0MHz fully modularized construction. Channelized. 150 watts PEP/100 watts average power output. FCC type accepted, U.S. Military nomenclature.



SOTA Industries Mobile Monobander SSB Transceiver Series (1976). A series of solid-state SSB and CW with sidetone transceivers covering the following frequencies: Model 160: 1.8-2.0MHz LSB, Model 80: 3.5-4.0MHz LSB, Model 40: 7.0-7.3MHz LSB, Model 20: 14.0-14.35MHz USB. Features include MOSFET mixers, J-FET oscillators, digital freq. counter LED 100Hz accuracy, speech compressor, noise blanker, 100 watts PEP, 50 w.CW output, broadband output. Receiver sensitivity .5uv for 15db S+N/N ratio. Selectivity 2.1kHz @-6db. Operates 12-14VDC. Includes mobile mtg bracket, 8' battery cable. \$395. Optional equipment MMB-1 plug in mobile mtg. bracket \$45, PS-1 matching A.C. power supply w/built-in speaker \$125(110/220 VAC 50-60Hz). Size of Xcvrs 3½x7x8½". 5.4 lbs.



Specialty Communications Systems, Inc. "Sidekick" Linear Portable System(1976). Fully self-contained portable power amplifier that provides up to 30 watts out for up to 3 watts in from hand helds and other low power transceivers. Sealed rechargeable battery, charger, case with belt loop and shoulder strap included. \$220.



Specialty Communications Systems (SCS) FM and SSB Power Amplifiers (1976). Selectable bias - Linear Class AB for SSB, Class C for FM. Variable T-R delay. Solid state and microstrip construction. Full VSWR and reverse voltage protection. Model 2M3-30L 3 watts in 30 watts out \$109.95. Model 2M3-140L 3 watts in 140 w. out \$199.95.





Specialty Communications Systems (SCS) HF-10-100L Amplifier (1976). Designed for use with Yaesu FT-301 Series. Freq. Range 3-30MHz, input power 10w nom., 5-20 w PEP range; Output power 100w nom., ±1/2db across band, 200-250w PEP output. Operates 13.6VDC, 11-14VDC acceptable. Includes built in low pass filter which cuts off at 35mHz. Class AB operation for proper linearity and min. distortion. 19.1x16.5x8.9cm Wt. 1.5 Kg. Price class \$219.95.

Specialty Communications Systems (SCS) 2M10-70L All Mode Linear Amplifier for 2 Meters (1976) 70 Watt PEP output with 10 watts input. Approximately 10db gain with lower power input. FM or SSB mode selected by a switch. All solid state microstripline design. Broadband, requires no tuning across band. Variable T-R delay for SSB/CW operation. Full VSWR and reverse voltage protection. Under 1db insertion loss in receive or bypass mode. Harmonics -40 db or better. 7.1x10.2x16.5cm. Wt. 1kg. \$139.95.

Other Specialty Communications Systems Amplifiers available 1976:



FREQUENCY MHZ	WODEL	INPUT POWER NOM W	OUTPUT POWER NOM W	OPERATING CURRENT +13 6VDC	SIZE CM HXWXL	RETAIL PRICE
50 54 144 148 144 148 220 225 420 450 420 450	6M10 100L 2M10 70L 2M10 140L 1.3M10 60L 70CM2 10L 70CM10-40L	10 10 10 10 2 10	100 70 140 60 10 35	12 8 19 7 2 6	7 1X10 2X22 9 7 1X10 2X16 5 7 1X10 2X26 7 7 1X10 2X26 7 7 1X10 2X16 5 7 1X10 2X16 5 7 1X10 2X16 5	\$169 95 139 95 219 95 159 95 109 95 139 95

- Fully VSWR & reverse voltage protected
- No tuning required across band
 Switchable Class C or AB operation
- Built in TR switching, w/increased delay for SSB
- Fully compatible with all 1 15W FM/SSB, AM, CW rigs
- All solid state and microstrip construction



Spectrum Communications (SC) SCR-1000 Repeater (1976). RF output 30 watts. Sensitivity .3uv for 20db quieting. Selectivity -6db @±6.5kHz. Desense/Overload..W/luv desired signal, desense just begins @ approx. 50,000uv @±600kHz. Spurious response -70db min. Features include full metering of critical levels, front panel controls for timers & AF levels, lighted pushbuttons for control/test functions & status indicators, state of the art CMOS control logic & timers - NO relays. Built in IDer, field programmable. Fu-ly adjustable. MOSFET/Hot Carrier Diode recvr front end - greatly reduces "desense" & IM problems. Built-in AC supply w/instant battery switchover. Jacks provided for remote control, auto-patch. \$800.



Spectrum International (SI), Inc. FMt440 Transverter (1976). Converts a 2-meter FM input to the 440 MHz band. Connect the FMt440 in place of the regular 2-meter antenna, then connect the 2-meter and 440 antennas and 12VDC to the FMt440. Switch on FMt440 changes bands automatically from front panel switch. 2-meter drive power 25w. max. Efficiency 50% typical. Sensitivity of receiver .5uv. Gain 22db nom. Frequency ranges: 144-150, 430-450 mHz. Bandwidth 5mHz. Price class \$179.95.



Spectrum International(SI) MMt432 SSB Transverter(1976). Use a HF Transceiver in the 28-32mHz range on the 432-436mHz band by using the MMt432 linear converter. Operates on all modes: SSB,CW,AM,FM. Contains both the linear transmit up-converter and the receiver down-converter. An internal PIN diode T/R connects to the transceiver T/R line. Power output 10w peak. Receive N.F. 3db max. Receiver gain 30db typical. Bandwidth 4mhz. Drive(10 meters) .5w. max. Operates 12VDC. \$274.95.



Tempo 100-AL10-B Linear Amplifier With Built-In AC Power Supply(1976). Operates in freq. range of 144-148 MHz. 10 w. (nominal) in for power output of 100w. (nominal). Solid state, microstrip design on glass epoxy circuit boards. Amplifier and its self-contained AC power supply in one compact package. Price class \$295.



Other Tempo VHF/UHF Power Amplifiers available in 1976:

Solid state power amplifiers for use in most land mobile applications. Increase the range, clarity, reliability and speed of two- way communications.

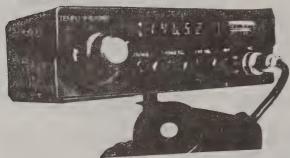
				400 to !	512 MHz)		
VHF (1	35 to 1	75 MHz)		Drive Power	Output	Model No	. Price
Drive Power	Output	Model No	Price	2W	70W	70D02	\$270
2W	130W	130A02	\$199	10W	70W	70D10	\$250
10W	130W	130A10	\$179	30W	70W	70D30	\$210
30W	130W	130A30	\$189	2W	40W	40D02	\$180
2W	80W	80A02	\$169	10W	40W	40D10	\$145
10W	80W	80A10	\$149	2W	10W	10D02	\$125
30W	80W	80 A 30	\$159	FCC Type a	ccepted	nodels also	available.



Tempo MR-2 VHF High-Band Monitor-Paging Receiver (1976). A shirt pocket size monitor-paging receiver with 12 channel capability. Excellent selectivity and sensitivity is claimed for it by the mfg. 4 MHz band spread. Range 140-170 MHz. Plug-in crystals. Ni-cad batteries and accessory charger included. For FM. Price \$79.



Additional Tempo Pocket Receivers available in 1976: (Similar to the MR-2 described above). Model MS-2, a 4 channel scanning receiver for VHF high band. Model MR-3 miniature 2-channel VHF high band monitor or paging receiver. Model MR-3U single channel receiver on the 400 to 512 UHF band. Low priced, compact.



Tempo VHF/One Synthesized 2-Meter Transceiver (1976). 144 to 148 MHz for transmit & receive. Full phase lock synthesized(PLL), 5-digit LED receive freq. display, 5 kHz freq. selection for FM operation. Automatic repeater split - selecteable up or down for normal or reverse operation. 2-built in programmable channels. All solid state. 10 watts output. Super selective w/xtal filter at 1st IF and E type ceramic filter at 2nd IF. 800 selectable receive frequencies. Mic., power cord and mounting bracket included. Provision for an accessory SSB adaptor. Accessory 9-pin socket. \$495.



Tempo 2020 SSB Trans-ceiver(1976). Covers 80 thru 10m. amateur bands. Multi-mode USB, LSB, CW & AM operation. Phase lock loop (PLL) oscillator circuit minimizes unwanted spurious response. Hybrid digital frequency presentation. Mostly solid state, 3 tubes. Builtin AC and 12VDC supplies. Sensitivity .3uv 10db S/N ratio. Fixed channel crystal on 2 available positions. RF Attenuator, ALC adjustable action, builtin spkr. CW filter standard equipment. 6146-B fi-nal amplifier tube. Has noise blanker, VOX, semibreakin CW keying, xtal calibrator and WWV re-

ceiving capability. Cooling fan included. \$795.

Model 8120 external speaker \$29.95. Model 8010 remote VFO \$139. (2020 has dual RIT control which allows both broad and narrow tuning. Also has phone patch in and out jacks, spearate PTT jack for foot switch. Microphone included in the \$795 price.)

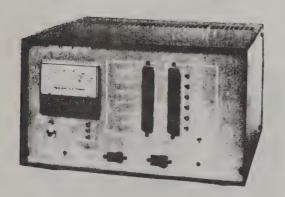


TPL Communications Inc. "Econ-O-Line" Power Amplifiers (1976). Solid state construction featuring magnetically coupled transistors and a floating ground, electronically protected. A linear bias switch allows operation on either FM or SSB. Well suited for 2-meter SSB. Up to 100w. PEP output with proper drive. Broad band frequency range so no tuning required for entire 2-meter band and adjacent MARS channels. Specs.:

Model 702 l0w-20w input/50w-90w output, 143-149MHz \$139. Model 702B lw-5w. input/60w-80w output, 143-149MHz \$169.



Trans World Communications (TWC), Inc. Model 10S Solid State Fixed Channel SSB Transceiver (1976). Features include 4 or 6 fixed channels, 2 to 16 MHz operating range, 150 watt PEP output broadband, all transistor final, operates directly from 12VDC (or AC/DC internal supply optional), U.S. design and manufacture. Price class: for DC operation only, \$850. AC/DC model \$950.



Trans World Communications (TWC) Model T1000 Linear Amplifier (1976) Freq. range 1.8 - 30MHz all commercial & amateur frequencies. Uses new 50v linear RF power transistors, in 4) 300w. modules to deliver a cool low distortion 1000w. output across the entire HF range without tuning adjustment. 1000 watts PEP output. SSB,FSK,CW,AM,FM modes. Comprehensive protective circuitry and 2-stage cooling for continuous service. Has heavy duty 115/230, 50/60Hz VAC power supplyusing an encapsulated constant voltage transformer so it may be used on poorly regulated power mains. Has 7 pole elliptic function harmonic filters selected by front panel pushbutton switch or by remote control from the exciter bandswitch. 60w. PEP drive at 50 ohms, compatible with most commercial & amateur exciters. US mfg. \$2,795.

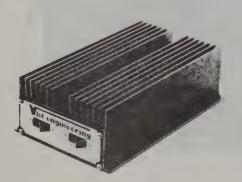


TRW Semiconductors VHF RF Power Modules for Mobile Transmitters (1976). Designed for mobile or marine use, operate in the 140-175MHz range. Operate from 12VDC and withstand infinite VSWR at any angle, with 2db overdrive and 16VDC applied. 50 ohm input and output impedances, more than 20db gain, and are stable when operating to load VSWR's as high as 5:1. Extremely small size. Model MV20(20w.output) \$39.50 and Model MV30(30w. output) \$41.50, in small quantities.



VHF Engineering "B" Series of Repeaters (1976). All include Quality EMI Filters, 159 bit CWID with field programable memory, 110/220 50/60Hz VAC power supply built in with fold back current limiting and over voltage protection, 4-pole helical resonator and 4-pole crystal filter giving 70db adjacent channel band signal rejection, harmonic trap, netting capacitor on receiver, dynamic microphone included. RPT144B 2-meter 15w. less xtals. Kit \$470 Wired \$696 RPT220B 220MHz 15w. less xtals. Kit \$470 Wired \$696 RPT432B 432MHz 10w. less xtals. Kit \$516 Wired \$750.

★HF Engineering "Blue Line" High Power RF Amplifiers) 1976). Cover ranges: 2-30MHz, 140-170MHz, 210-230MHz or 430-480MHz. Have a unique "thermal transfer blue" finish. High gain, change from Class C(FM) to linear(SSB) with the flip of a switch. Models:



MODEL	FREQUENCY	EMISSION	INPUT	OUTPUT	
BLA 3/300	2-30MHz	CW/AM/SSB	10W(PEP)	300W(PEP)	
BLC 10/70	140-160MHz	CW/AMSSBFM	10W`	70W ` ′	
BLC 2/70	140-160MHz	CW/AM/SSB/FM	2W	70W	
BLC 10/150	140-170MHz	CW/AM/SSB/FM	10W	150W	
BLC 30/150	140-170MHz	CW/AM/SSB/FM	30W	150W	
BLD 2/60	220-230MHz	FM CW/FM	2W	60W	
BLD 10/60	220-230MHz	CW/FM	10W	60W	
BLD 10/120	220-230MHz	CW/FM	10W	120W	
BLE 10/40	420-450MHz	CW/AM/SSB/FM	10W	40W	
BLE 2/40	420-450MHz	CW/AM/SSB/FM	2W	40W	
BLE 30/80	420-450	CW/AM/SSB/FM	30W	80W	
BLE 10/80	420-450	CW/AM/SSB/FM	10W	80W	



VHF Signal Co. Series of VHF Transverters (1976). Models are available to convert a VHF transmitted signal (10-meters for example) to a 50 MHz, a 144MHz, or a 220MHz output. 1 watt minimum output. Said to be compatible with High Frequency SSB equipment. Price class \$129.50.



Wawasee Electronics Co., Inc. Black Cat^R JB 2000 10/80 Linear Amplifier(1976) Power input 2000 watts PEP SSB, frequency range 10 meters thru 80 meters. Has a self-contained 120/240VAC solid state power supply. Said to greatly increase the signal put into it.

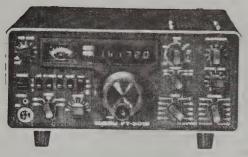


Wilson Electronics Corp. 2202-SM Hand Held 220-225 MHz FM Transceiver (1976). Frequency range: 220-225 MHz, 6 channels, plug-in crystal controlled, individual trimmers on all TX/RX crystals, 12 kHz ceramic filter, 10.7 & 455kc IF, .3uv sensitivity for 20db quieting, switchable 1 & 2.5 watt output, battery condition indicator, operates 12VDC, microswitch mic. button. 9x1-3/4x3". Unbreakable Lexan case. Flex antenna and 223.50 MHz simplex installed. Price class \$239.95, Ni-cad case

Wilson Electronics Corp. 4502-SM Hand Held 420-450 MHz FM Transceiver (1976). Frequency range: 420-450 MHz, 6 channels, plug-in crystal controlled, individual trimmers on all TX/RX crystals, 12kHz ceramic filter, 21.4 and 455kc IF, .3uv for 20db quieting is the receiver sensitivity, switchable 1 & 1.8 watt output, operates 12VDC, battery condition indicator, 9x 1-3/4x3". Microswitch mic. button, unbreakable Lexan case. Includes flexible antenna, 446.00 MHz simplex installed. Price class 279.95, Ni-cad case included.



Yaesu Musen Model FRG-7 Synthesized General Coverage Receiver (1976). Continuous coverage 500kHz to 29.99MHz. Features include completely solid state, drift canceling circuit, RF attenuator, noise suppressor circuit, 5kHz direct dial readout, ceramic IF filters, USB/LSB/AM/CW mode operation, high sensitivity is claimed for it, triple conversion, 3-position audio ranges: normally broad, narrow w/hi and lo cutoff, low with hi cut off, recording output jack provides constant output level regardless of audio volume control settings. Operates AC-DC or internal battery.\$300.





Yaesu Musen "Gold Line" Model FT-301D Transceiver (1976). All solid state digital dial transceiver, freq. range 160 thru 10 meters, 6-digit readout, SSB/CW/AM/FSK modes. Fully transistorized using ICs and FETs, wide-band tuning system with preset pass band tuning combined with wide-band amplifier which eliminates final amp. tuning for band change. Has TX & RX clarifier, built-in DC power supply, noise blanker, RF speech processor. Construction is computer type plug in module. Uses RF feedback, 3-position AGC, rejection tuning(tuneable IF Xtal filter). Options include automatic CW programmable identifier. 11x5x13½"D. 22 lbs. Accessories: AC pwer supply/spkr unit w/12 or 24hr. digital clock, Yaesu FV-301 Xtal/External VFO. Price class \$935. FT-301D power output is 200 watts PEP SSB mode.

Yaesu Musen FTV-250 2-Meter Transverter (1976) Converts a HF exciter input or transceiver input to the 2-Meter band. Price class \$300.

Note: The following Yaesu Musen equipment has been included in previous Volumes but is being included again because of additional information or better pictures.





Yaesu Musen FT-101E Transceiver (1975). Mobile/Base Station, covers 160 thru 10 meters; operates 12VDC or 110/230V AC on built-in power supplies; 260 w. PEP SSB, 180w. CW, 80w. AM output; RF speech processor and fully adjustable VOX; automatic break-in cW with sidetone; 25 or 100kHz selectable calibrator; built-in WWV/JJY reception; adjustable carrier level for tune-up and novice operation; built-in speaker; 8-pole SSB filter; antenna impedance 50 or 75 ohms unbalanced; freq. response 350-2700 Hz ±3db. Comes complete with 50,000 ohm dynamic mic. Price class \$749. Model FT-101EE same as above but less speech processor, \$659.

Yaesu Musen FT-221 2-Meter SSB-FM-CW & AM Transceiver (1975). Features include phase-lock loop circuitry for stable clean signals plus modular plug-in construction & boards for easy access & maintenance. Complete VFO coverage of 144-148 MHz and 88 crystal-controlled channels. AC/DC operation for base or mobile work. 12 watts PEP SSB, 14 w. CW or FM. 2.5 watts AM. Built-in spkr. 3-way metering, discriminator zero center, repeater up, down offset, clarifier offset tuning, .5uv receiver sensitivity, PTT or VOX operation, pulse noise blanker and 1kHz dial accuracy. Built-in AC-DC power supplies; mic., plugs, connectors supplied. Price class \$679.



Yaesu Musen FT-620B 6-Meter SSB, CW & AM Transceiver (1975). Complete 6-meter band coverage in 8 500kHz segments with 1kHz VFO readouts across the entire band. Up to 4 crystal-controlled channels in each of the 8 band segments. Offset clarifier, noise blanker, AGC, ANL. 24 watts PEP on SSB, 20 w. CW(50% duty cycle), and 8 w. AM. AC/DC powered for mobile or base use. \$449.



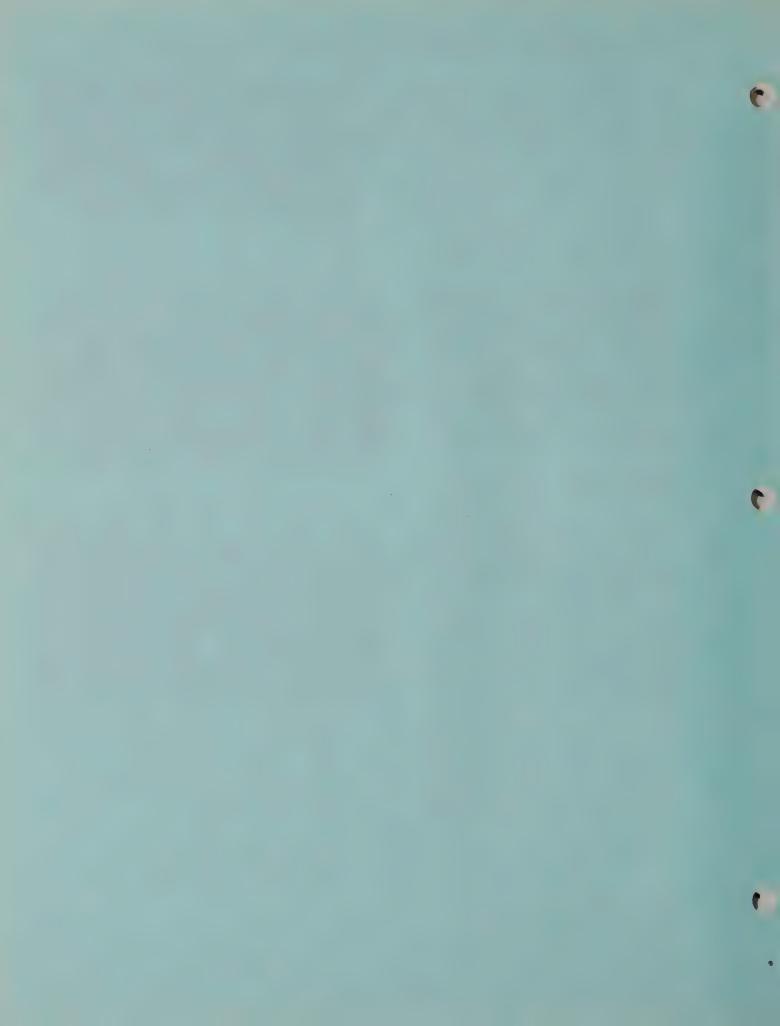
Yaesu Musen FL-101 Solid-State
Transmitter (1974). 240 watts
PEP SSB input; 160 thru 10 meters coverage +2 optional auxiliary bands; all modes: SSB,CW,AM & FSK; plug-in modular circuitry & provision for RF speech processor. Matches FR-101 receiver with the capability of compatible tranceive operation. Built-in AC supply, fully adjustable VOX, automatic break-in CW w/sidetone, fan and indicator light for internal VFO operation. Price class \$554.

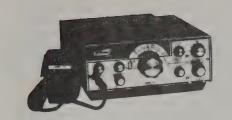


Yaesu Musen FR-101 Digital Solid State Receiver (1974). Total coverage capability: 160 thru 10 m. + 12 major S.W.bands (6 & 2 meter converters & xtals optional). Direct freq. readout to 100Hz; provision for all-mode reception: SSB,CW,AM, RTTY,FM(filters and FM detector optional.) Plug-in modular circuitry. Compatible for transceive operation w/FL-101 Xmtr above. Selectable fast or slow AGC, built-in adjustable noise blanker, AC & 12VDC power supply, indicator lights for internal VFO and clarifier, ±5 kHz clarifier. Price class \$629.

```
Model No./Name
                                                   Model No./Name
                      See...
                                     Type
                                                                          See...
                                                                                        Type
ACT-T-16K...Regency...Scan Receiver
Alda 103...Alda...Transceiver
Argonaut 509...Ten-Tec...Transceiver
                                                   SB-104A...Heathkit...Transceiver
                                                   SS747...Swan..."Untransceiver"
Synthetran 144...Tec-Kan...Transceiver
Astro 200...CIR...Transceiver
                                                   System 3000...Edgecom...Transceiver
                                                   System 3000A.. Edgecom... Transceiver
Bearcat 210...Bearcat...Scan Receiver
Century 21...Ten-Tec...Transceiver
                                                   T80-150...Hamtronics...Amplifier
                                                   T80-450...Hamtronics...Amplifier
EDL 144...Polar...Amplifier
                                                   TR-7500...Kenwood...Transceiver
EDL 432P...Polar...Amplifier
                                                   TR-8300...Kenwood...Transceiver
Triton IV...Ten-Tec...Transceiver
TRX50, -144, -220, -432...VHF Engineering
EDT50-28...Polar...Transverter
EDT144-28...Polar...Transverter
                                                                             Transceivers
FL-110...Yaesu...Amplifier
                                                   TS-520S...Kenwood...Transceiver
FM-28...Clegg...Transceiver
FM 2015R...KDK...Transceiver
                                                   TS-600...Kenwood...Transceiver
                                                   TS-700S...Kenwood...Transceiver
FMH-2, -5, -42...Tempo...Handheld
                                                   TS-820S...Kenwood...Transceiver
              Transceiver series
FMR 260-PL...Vanguard...Receiver
                                                   "Untransceiver"...Swan...Transceiver
FMT440/146...Microwave Modules...Trans-
                                                   UV-3...Drake...Transceiver
                           verter
Force 5...KLM...Transceiver
FT-221R...Yaesu...Transceiver
FT-227...Yaesu "Memorizer"...Trans-
                                                   V70...RF Power Labs...Amplifier
                                                   V71...RF Power Labs...Amplifier V130...RF Power Labs...Amplifier
                               ceiver
FT-301S...Yaesu...Transceiver
                                                   V135...RF Power Labs...Amplifier
FT-301SD...Yaesu...Transceiver
                                                   V180...RF Power Labs...Amplifier
FT-901D...Yaesu...Transceiver
                                                   VHF/One Plus...Tempo...Transceiver
GMT-125...Genave...Transceiver
GMT-225...Genave...Transceiver
                                                   WE-800...Wilson...Transceiver
GTX-4...Genave...Handheld Trans-
                                                   XR-3000D...Sigma...Amplifier
                              ceiver
GTX-12/12...Genave...Transceiver GTX-800...Genave...Transceiver
H2M-500...Hallicrafters...Transceiver
                                                   1.3M10-70L...Lunar...Amplifier
H2M-1000...Hallicrafters...Transceiver
HF3-100L...Lunar...Amplifier
                                                    2-15...VHF Industries...Amplifier
                                                    2-40...UHF Industries...Amplifier
                                                   2KD-5...Henry...Amplifier 2M-..prefix for Westcom line of trans-
HF10-100L...Lunar...Amplifier
MA1000...Magnus (Metron)...Amplifier
                                                    2M3-30L...Lunar...Amplifier
Mark II, -IV...Wilson...Handheld Trans-
                                                    2M10-70L...Lunar...Amplifier
                             ceivers
                                                    2M10-80L...Lunar...Amplifier
"Memorizer"...Yaesu...Transceiver
Metron MA1000...Magnus...Amplifier
                                                    2M10-80P...Lunar...Amplifier
                                                   10D02...Tempo...Amplifier
15-40...UHF Industries...Amplifier
20-80...UHF Industries...Amplifier
MLA-1200...Dentron...Amplifier
MLA-2500...Dentron...Amplifier
MMT-144/28...Microwave Modules...
                                                   40D-...prefix for Tempo Amplifier series
                        Transverter
                                                   70D-...prefix for Tempo Amplifier series 80A-...prefix for Tempo Amplifier series
MMT-432/28...Microwave Modules...
                        Transverter
                                                   130A-...prefix for Tempo Amplifier series
MMT-432/28 Mark 4...Microwave Modules...
                                                   144-5... Valley Instr. Products... Receiver
                        Transverter
                                                    350A, -D...Swan...Transceivers
350-XL...Atlas...Transceiver
MMT-432/50...Microwave Modules...Trans-
                           verter
                                                    540...Ten-Tec Triton IV...Transceiver
MMT-438/ATV...Microwave Modules...
                                                    544...Ten-Tec Triton IV...Transceiver
                        Transverter
                                                    661...KLM...Transceiver
Multi-U-11DX...KLM...Transceiver
                                                    750CW...Swan...Transceiver
                                                    1340...Drake...Transceiver
PA-...prefix for KLM Amplifier Series
                                                    1343...Drake...Transceiver
                                                    1344...Drake...Transceiver
OMT 432/144...Microwave Modules...
                                                    1345...Drake...Transceiver
                         Transverter
                                                   1346...Drake...Transceiver
R60-... Hamtronics... Receiver
R60-450...Hamtronics...Receiver
R70...Hamtronics...Receiver
R69-...Hamtronics...Receiver
R80-450...Hamtronics...Receiver
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R90...Hamtronics...Receiver R95-450...Hamtronics...Receiver RA6217...Racal...Receiver RPT 50...VHF Engineering...Repeater





ALDA Communications Inc. ALDA 103 Solid State SSB Transceiver(1977). Covers 80 thru 20 meters, 250 watts. Features include high stability VFO, modular plug-in circuit board assembly, 6-pole crystal filter with 2.5kHz bandwidth at -6dB, built in CW monitor, bottom-mounted built in speaker, dual speed VFO dial vernier, separate front panel RIT On/Off switch and tuning control, broadbanded power amplifier, extra large power amplifier heatsink, semi break-in CW, automatic internal antenna switching, all aluminum chassis. Rear panel connectors include: DC power input, RF output/antenna; external speaker jack; CW key jack; accessory socket. Price class \$500 with mic. and mobile mount included. Available options include 100 kHz/10kHz dual crystal calibrator, noise blanker, portable or heavy duty power supply. Manufactured in the U.S.A.



Atlas Radio Inc. Atlas 350-XL All Solid State SSB Transceiver (1977). Full coverage of all 6 amateur bands in 500 kHz segments 10 thru 160 meters. 350 watts PEP or CW input. Unique new selectivity control on front panel provides control of bandwidth as well as selection of USB, LSB, DSB. Continuously variable from 300 to 2700 Hz bandwidth. Shape factory better than 1.7 with ultimate rejection better than 130 dB. Modes include PTT or VOX, full or semi-break-in CW, USB, LSB, DSB. Has RIT up to 5Khz+or-, notch filter, analog dial scale 0 to 500kHz in 5kHz increments. Velvet smooth, 18kHz per revolution of fine tuning control. Operates 12VDC. Basic price class \$995. OPTIONAL FEATURES

AVAIIABLE: Model DD6-XL Digital Dial Readout \$229; Model 305 Plug-in Auxiliary VFO \$155; Model 311 Plug-in Auxiliary Crystal Oscillator \$135; Model 350-PS Matching AC Power Supply \$229; Plug-in Mobile Mount \$65. 350-XL Size: 5"xl2"xl2½"D, weighs 13 lbs.

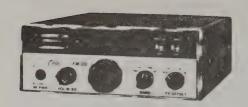


Bearcat 210 Scanner(1977). Scans up to 10 frequencies by push-button selection. Automatic search, decimal display, crystal-less, covers 32-50, 146-148, 148-174, 450-470, and 470-512Mhz ranges. Features include track tuning, automatic lockout, keyboard programming, squelch, AC/DC operation, 3 inch speaker. Scan rate 20 channels per second. Has selective scan delay of 2 seconds during call and answer trans-missions. 117VAC, 13.8VDC power requirements. Has external antenna and speaker connectors. 10-5/8"x3"x 7-5/8"D. Selectivity better than -60dB; Sensitivity 0.6uv for 12dB SINAD on L & H bands, slightly less on U bands. Has a quartz crystal filter to reject adjacent stations and noise interference. "Rolling zeros" tell which band is being monitored. Price class \$289. Accessories include mounting bracket with hardware, and DC cord.



CIR Industries ASTRO 200 Digitally tuned SSB Transceiver (1977). 80-10 Meters, 40,000 frequency synthesized channels, LED readout, 200 watts PEP, all solid state with electronic tuning, front end filtering, built-in TVI filtering, Noise blanker, VOX, squelch, RIT, speech processing, full metering. 100 Hz resolution, calibrate with WWV receiver that is built in; selectable USB or LSB. CW operation features semi break in with adjustable delay and side tone. Compact 2.8x9.5x12.3"D including heat sink. Operates 10-15 VDC. Receiver sensitivity .3uv for 10db S+N/N. Crystal ladder 8 pole filter selectivity. Bandwidth 2700Hz @6db down. Price class \$995. Optional Accessories: 400cy

down. Price class \$995. Optional Accessories: 400cy xtal filter \$50; station console with speaker, digital clock, 10 minute timer, phone patch \$295; AC power supply \$135; desk mic \$38; hand mic \$15; mobile mount \$12.



CLEGG FM-28 2-Meter FM Transceiver (1977). Fully synthesized digitally from 144 to 148 MHz in 5 KHz steps. Bright 6-digit frequency display. Supplied with simplex, plus + or - 600 KHz offsets (up to 2 additional nonstandard offsets available). 25 watt transmitter, .25uv receiver sensitivity with helical front end. Super selectivity with 15 pole IF filtering + 5 pole front end filter. Large S-meter, multi-purpose accessory receptacle. Modular construction. Hi-Lo RF pwr switch. Price class \$359.95 with base and mobile mounts, DC cable, microphone, and manual. Optional accessories include base power supply, tone encoder, antennas, power amplifiers.



Dentron MLA-2500 Linear Amplifier (1977). 160 thru 10 Meters, 2000+ watts PEP input on SSB, 1000 watts DC input on CW, RTTY or SSTV. Variable forced air cooling system, self-contained continuous duty power supply, 117 or 234V AC 50-60 cycles. 2 Eimac 8875 external-anode ceramic/metal triodes operating in grounded grid. Covers MARS frequencies, 50 ohm input and output impedance, built in RF wattmeter. 40 watts drive for 1KW DC input. Modular construction, 51x 14x14"D, 47 lbs. Has ALC circuit to prevent overloading. Third order distortion is down at least 30db. Price class \$799.95. a 19" rack mount kit is available.



Dentron MLA-1200 Linear Amplifier (1977). Uses a single 8875 external-anode ceramic/metal triode to yield 1200 watts PEP SSB and 1000 watts DC input on CW, RTTY, or SSTV with as little as 70 watts drive. An automatic swamping circuit prevents damage to the final if more than 100 watts drive is applied. Forced-air cooling, all steel chassis, black wrinkle finish, plug-in PC board for metering, ALC, mandatory warm-up timing. Covers 80 thru 10 meters. Uses outboard AC or DC power supplies. 10x6\forall x10"D, a light 10 lbs. Price class \\$399.50. AC-1200 \\$159.50; DC-1200 \\$199.50. Standard 6' cabling.



DRAKE UV-3 Synthesized FM 3-Band System(1977). Fully synthesized 50 5 KHz on all 3 bands 144, 220, 440 MHz. Power output of 25 watts on 144, 10 watts on 220 and 440 MHz. Programmable low power is switch-selected. 4 diode-programmable fixed channels on each band in addition to the synthesizer. Scanner continuously monitors synthesizer frequency when using fixed channel operation, or vice versa. Standard offsets or simplex on each band, plus a total of 3 diode-programmable offsets for special repeaters. Price class of this UV-3 Model 1346 is \$995.

NOTE: The complete 3-band Model 1346 described above can be purchased, or you can begin with a basic unit as listed below and have other band modules added (at the factory so as to meet FCC requirements) later. Standard Drake UV-3 Models are:

Model	1346	(144-220-440)\$995
Model	1344	(144-440)
		(144-220)
Model	1345	(220-440)
		(144) 595

*144 Add-on Module \$250

*220 Add-on Module \$250 *440 Add-on Module \$250

*Prices include factory installation

Model prices include standard dynamic mike and mobile mounting bracket. OPTIONS: Model 1504 PS-3 AC Power Supply \$89.95; Model 1525 EM Encoding Mike \$49.95; Model 1330 UMK-3 Remote Trunk Mount Kit \$69.95.



Edgecom System 3000 Computerized 2-Meter Transceiver (1977). 10 front-panel programmable priority channels; built-in scanner, priority channel silent monitor, 2 freq. tone encoder/decoder provides 2 selectable fully adjustable subaudible tones for transmit, and/or tone-coded squelch; any transmitter offset without additional crystals; audio-visual alarm to let you know when the monitored priority channel is occupied or when tone-coded squelch is activated; advanced PLL synthesizer covers 144-147.995 MHz with full push button-tuning. Superior receiver sensitivity, selectivity, and intermodulation characteristics. Power output adjustable to 25 watts. Mobile or fixed operation, 54x24x11"D. Class \$499.

Edgecom System 3000A Computerized 2-Meter FM Transceiver (1977). (Cabinet and appearance similar to the System 3000 above). 20 Front-panel programmable priority channels. Just dial in the frequency and transmitter offset, press the Enter switch and you're in the memory. A battery backup is used to retain the memory when power is removed. Has dual built-in scanners: one of automatically tuning the band in 1 or 4 MHz bands, the other for scanning the priority channels. Adjustable pause from 3-10 sec. Priority Channel Monitor so you can operate on one frequency while periodically monitoring one or more priority channels. Any transmitter offset. In addition to the standard + or - 600 KHz, it can be front-panel programmed to provide any offset from 5 KHz to 4 MHz. Advanced PLL Synthesizer covers 144-147.995 MHz in 5 KHz steps with electronic push-button (two-speeds) tuning. 25 watts output. Selectable High/Low power output with adjustable low power. Price class \$549.



Genave GMT-125 VHF Transceiver (1977). Operates 143.9 to 173.4mHz; 25 watts output; single channel; includes a 4 pole monolithic crystal filter to eliminate adjacent channel interference. Has a built-in heat sink, includes a captive microphone, mic clip, DC power cord, & mounting bracket. Operates on 13.75V DC. Price class \$345. Wt.6 lbs.

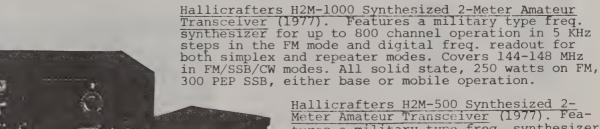
Genave GMT-225 VHF Transceiver (1977) (deluxe version of the GMT-125 at left) Operates 143.9 to 173.4 mHz; 25 watts output; dual channel; includes a 4 pole monolithic crystal filter to eliminate adjacent channel interference. Has a built-in heat sink, includes a plug-in microphone, mic clip, DC power cord, & mounting bracket. Operates on 13.75V DC. Price class \$360. Wt.6 lbs.

Accessories available for either: a subaudible tone squelch, portable power pack, external speaker, 12w.PA horn.

Genave GTX-12/12 2-Meter Transceiver (1977). 12 transmit, 12 receive channels independently switchable. 25 watts output power. Covers 144-148 MHz. Price class \$199.95

GENAVE GTX-800 2-Meter Transceiver (1977). 800 channels, 25 watts, covers 144-148 MHz. \$399.95 A fully synthesized 800 channel unit.

Genave GTX-4 Hand Held VHF Transceiver (1977). 4 Channels, 1.5 watt power output, separate microphone and speaker, long battery life, 8x 2-3/4xl-1/4", weighs under 2 lbs. Price class \$199.95 which includes carrying case, antenna, Nicad batteries, battery charger, 52/52 xtals.



Hallicrafters H2M-500 Synthesized 2-Meter Amateur Transceiver (1977). Features a military type freq. synthesizer for up to 800 channel operation in 5 KHz steps in the FM mode and digital freq. readout for both simplex and repeater modes. Covers 144-148 MHz in FM mode. All solid state, 250 watts FM either base or mobile operation.



Hamtronics VHF FM Rcvr kits for any band 28-240 MHz (1977) R60-(), .5-luv sensitivity, includes VHF converter and IF/Audio Boards \$64.95.

R69-(),.2-Auv sensitivity, includes P9 Preamp, VHF converter and IF/Audio Boards \$69.95.

Crystals \$5.50



Hamtronics UHF FM Rcvr Kits for any band 380-520 MHz (1977) R60-450, 5-10uv economy rcvr, includes UHF converter and IF/Audio Boards only...\$59.95.

R80-450, 2-5uv sensitivity monitor recvr, includes UHF converter, VHF converter & IF/Audio Boards \$84.95

R95-450, .4-luv sensitivity rcvr, Includes P15 Preamp, UHF and VHF converters, IF/Audio Boards \$94.95



Hamtronics RF Power Amplifier Modules (1977). Require no tuning, VSWR protected, completely stable, 150 MW drive. T80-150, 140-175 MHz, 20-25W output, wired & tested \$79.95 T80-450, 430-470 MHz, 13-15W output \$79.95.

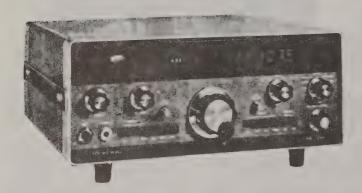


Hamtronics FM Receiver Kits (1977). Features include better selectivity, 70-80db adjacent channel rejection, 60db image rejection, hiQ coils, compartment shielding, 6 channels.

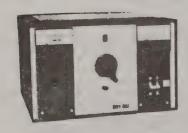
VHF Model R70 available for 2M, 6M, 10M, 220 MHz or commercial bands. .4uv sensitivity for 20db. Options:Xtal filter kit \$10. Xtals \$6ea. Price class of the model R70 is \$69.95.



UHF Model R90, for any 2 MHz segment of the 380-520 MHz range. .8uv sensitivity. Option: Xtal filter kit \$10. Channel Xtals \$6 ea. Price class of the R90 is \$89.95



Heathkit SB-104A SSB/CW Transceiver (1977). 80 thru 10 meters, totally broadbanded, completely solid state, operates USB, LSB, CW. .5uv receiver sensitivity, full 100 watts PEP SSB & CW on high power, 1 watt on low power position. Digital freq. readout. Low harmonic and spurious radiation, 3rd order distortion down 30db. Includes 15 MHz WWV receive. Price class \$669.95. 5-3/4x14xx 14"D. Available optional accessories include a noise blanker, mobile mount, 2 400 Hz CW filter(crystal), external matching station speaker large enough to house the AC power supply, 5-function station console.



Henry 2KD-5 Linear Amplifier (1977). 2000 Watt PEP input (1200 watt PEP nominal output) RF linear covering the 80, 40, 20, 15 and 10 meter amateur bands. 2 Fimac 3-500Z glass envelope triodes in a grounded grid circuit. Pi-L plate circuit with a rotary silver plated tank coil for greatest efficiency and maximum attenuation of unwanted harmonics. Full legal input in all modes: 2000 watts PEP input for SSB, 1000 watts DC input for CW, RTTY and AM. Jumper for 115 or 230 VAC, 3 wire single phase. 10 x15x17 "D. Price class \$895.



KDK FM 2015R Synthesized 2-Meter Transceiver (1977). All solid state CMOS PLL digital synthesized. 5KHz steps - 144 to 149 MHz. LED digital readout plus MARS-CAP. 5MHz band coverage, 1000 channels. 4 channel RAM IC memory with scanning, multiple frequency offsets, electronic auto tuning, 15 watts output. .25uv receiver sensitivity, 15 pole filter as well as monolithic crystal filter and automatic tuned LC circuits for superior skirt selectivity. High/Low power output(15w. and 1w.). Accessory socket, multi-purpose meter, dynamic mic, mobile mount, speaker jack, more. 2½x7x7½. 5 lbs. Price class \$399. Features true FM, not phase mod.



Kenwood TS-520S 160 thru 10 Meter Transceiver (1977). Full coverage amateur bands from 1.8 to 29.7 MHz plus WWV. Has dual gate MOSFET for low noise, high gain, improved speech processor, vernier tuning for final plate control, noise blanker, built in AC 120/220V AC 50/60Hz power supply, amplified AGC circuit, RIT control, 8 pole filter, builtno 25 KHz calibrator, semi-breakin CW with sidetone, VOX/ PTT/MOX, tune position for low power tune up, builtin spkr and cooling fan. Modes: USB, LSB, CW. RF input power: SSB 200 watts PEP, CW 160 watts DC. Receiver sensitivity .25uv for 10db S+N/N; selectivity SSB 2.4kHz/-6db; CW .5KHz/-6db Approx. size 6½xl-3/4xl0½"D. 2.9 lbs. Price class \$649.

Optional Accessories: DG-5 Digital Freq. Display \$179; VFO-520 Remote VFO \$119; SP-520 External Speaker \$28; CW-520 500Hz CW filter \$49; DK-520 Digital Kit for TS-520 \$20.



Kenwood TS-600 6-Meter Transceiver (1977). Solid state covering 50-54 MHz in SSB, FM, CW & AM modes. Send and receive capabilities on 20 channels with 5 crystals. Has builtin speaker, power supply, microphone, noise blanker, RIT. RF Power: 20 watts PEP input on SSB, 10 watts output on CW & FM, 5 watts on AM. Receiver Sensitivity: SSB and CW .25uv for 10db S+N/N, .4uv FM for 20db quieting, .5uv for AM 10db S+N?N. Operates 120/220VAC 50/60Hz. Size approx. 11x5x13"D. 24.4 lbs. Price class \$660. Matching speaker \$28. Vox for TS-600 \$25.



Kenwood TS-700S 2-Meter Transceiver (1977) Covers 144-148 MHz. Built-ins include digital readout, receiver preamp, VOX, semi-break in CW sidetone, VFO controlled. Features include 1 watt low power switch, all mode operation: SSB(USB & LSB), FM, AM and CW, solid state, builtin AC power supply, AC & DC capability, 4 MHz band coverage, automatically switches transmit freq. 600KHz for repeater operation. Can be 44 channel crystal controlled with 11 crystals. Optional external matching VFO for split freq. operation is the VFO-700S. VFO in use is selected by the function switch on the TS-700S, and a momentary contact "freq. check" switch allows a spot check of the frequency of the VFO not in use.



Kenwood TS-820S 160 - 10 Meters Digital Display Transceiver (1977) Features include a speech processor, IF shift control, PLL, Digital readout on both receive and transmit. Freq. range 1.8-29.7MHz Modes: USB, LSB, CW, FSK. Input power 200wPEP SSB, 160w DC on CW, 100w DC on FSK. Receiver sensitivity better than .25uv, selectivity 2.4 KHz -6db SSB to 4.4 KHz -60db. Built-in speaker, power supply 120 or 220VAC 50/60Hz. Approx. size: 134x6x134"D. 36 lbs. Price \$1048. Accessories: VFO-820 Remote VFO \$145; CW-820 500 Hz CW filter \$49; DS-1A DC-DC converter for 520/820 \$65. TV-506 Transverter for 2 and 6 meter band operation.



Kenwood TR-7500 2-Meter FM Transceiver (1977). 100 channel PLL synthesized 146-148MHz (comes with 88 pre-programmed channels, 12 extra diode programmable). Single knob channel selection. 2-digit LED freq. display. 10 watt output, +or- 600 KHz offset, 1 watt low output. Receiver sensitivity luv for 30db, .4uv for 20db noise quieting. Operates 13.8VDC. Price class \$299. Size 6x3\frac{1}{2}x8\frac{1}{2}"D. 7.1 lbs.



Kenwood TR-8300 70 CM FM Transceiver (1977). Capable of F3 emission on 23 crystal-controlled channels. Power output 10 watts. TX freq. range 445-450 MHz; Rx freq. 442-447 MHz. Mode FM. Operates 13.8VDC. Approx. size: 7½x2½x 9½"D. 5.1 lbs. Price class \$299. 3 channels supplied: TX 446, 446.50, 449.10. RX 446,446.50, 449.10. Has low 1 watt output power position, coaxial relay ant. switch.



KLM Multi-U-l1DX VHF FM Transceiver (1977). All solid state, 2 RF stages w/MOS FET, continuously scan any 4 frequencies within total range. Freq. Range: any 4MHz segment between 420 and 450 MHz. Crystal control, 23 manually switchable channels, 4 auto scan. RIT variable +or- 5kHz. Multi-conversion receiver, 2 stage crystal filter, sensitivity. 5uv 20db NQ; selectivity: Wide: 6db@14kHz. Narrow 6db@7kHz. RF power output: 10w Hi, lw Lo position. Includes squelch, out transistor protective circuit, S/power meter switches for FM centering, input for ext. VFO or synthesizer, mic w. cord & plug. Operates 11-15V DC. 2½x6½x8-3/4"D 4½ lbs. Price class \$380. Panel LED shows channel scanned.



KLM "661" All Mode 6 Meter Transceiver (1977). Covers 50 to 54 MHz; SSB with USB and LSB, CW, NBFM, AM. Built-in VFO covers 50-54MHz in 500 kHz segments. 4 crystal-controlled channels, built-in low-pass harmnic filter. 10w min. power output(2.5w AM; Built-in power supply for 115 VAC and 13.8VDC; Clarifier, noise blanker, squelch, triple conversion receiver with .25uv sensitivity, built-in speaker with provision for external speaker, carrying handle, accessory plug on rear. 6-3/4x13\frac{1}{2}x11-3/4"D 25.8 lbs. Price class \$695.95. Microphone is included.



KLM Force 5 5-Band Transceiver (1977). Freq. coverage 3.5 to 29.9 MHz. Modes SSB w/USB & LSB; sensitivity .5uv for 10db S+N/N; selectivity crystal lattice 8 pole filter. Power input 200w PEP; operates 13.6VDC. Features include no tuning dials, no tuning controls, broad band amplifier output, PLL freq. synthesis, 6 figure digital readout to 100Hz, built-in WWV receiver, entirely solid state, AGC, speech processor. 3x12½x10½"D including heat sink, 8 lbs. Price class w/dynamic hand mic \$1095. Optional Accessories: Matching base station console with phone patch, VU meter, VOX, CW, 24 hour clock, audiovisual 10 minute timer \$379. 110/220VAC Power supply/ speaker \$249.95.



KLM RF Amplifiers (Revised 1977). Entirely new amplifiers in a 30% more efficient heat sink housing for cooler operation at all inputs; thermal overheat protection with LED warning indicator on panel; built-in low pass filters; cover an entire amateur band without retuning; reverse polarity protection, automatic RF sensing, can also be remotely controlled. Simply installed on an "add-on" basis. Power outputs and inputs listed below. Prices range from \$69.95 to 229.95.

MHZ	MODEL NUMBER	PWR. INP. (watts)	NOM PWR. OUTPUT (watts)	NOM. CUR. (amps.)	NOM. VOLTS	SIZE	FREQ. MHZ	MODEL NUMBER	PWR. INP. (watts)	NOM PWR. OUTPUT (watts)	NOM. CUR. (amps.)	NOM. VOLTS	SIZE
50-54	PA4-70AL 🛇	2-8	80	10	13.5	С		PA10-140BL	5-15	140	18	20	D
50-54	PA10-160AL >	5-15	160	10	28	С	"	PA10-160BL	5-15	160	22	**	D
144-148	PA2-25B	1-4	25	3	13.5	Ā	"	PA30-140B	15-45	140	15		D
*	PA2-70B	1-4	70	10	н	С		PA30-140BLO	15-45	140	15		D
	PA2-70BLC	1-4	70	10	н	С	219-226	PA2-70BC	1-4	. 70	10	#	C
**	PA2-140B	1-4	140	20 ·		D	20	PA10-60BC	5-15	60	8		G .
*	PA10-40B	5-15	40	5	*	В		PA30-120BC	15-45	120	15	13.5	D
**	PA10-40BL >	5-15	40	5		В	400-470	PA2-40C	1-4	40	7	70.0	Č
144-148	PA10-708	5-15	70	8	*	С	"	PA10-35C	5-15	35	6	н	, B
м.	PA10-70BLO	5-15	70	8	#	С	29	PA10-35CL	5-15	35	6		B
•	PA10-80BL >	5-15	80	10	w	С	27	PA10-100C	5-15	100	15		D
•	PA10-140B	5-15	140	18	13.5	D		PA10-110CL0	5-15	110	20	*	D

SIZES: Inches: "A", 6.5×2×2. "B", 6.5×5×2. "C", 6.5×7×2. "D", 6.5×10×2

MM 165×50.8×50.8 165×127×50.8 165×178×50.8 165×254×50.8

◇ LINEAR AMPLIFIER

NOTE: NEW STYLE DIMENSIONS WILL BE 7 0×2 375 inches (178×60.3mm) instead of 6 5×2 0 inches (165×50 8mm)



Lunar Electronics has absorbed the former SCS amplifiers and is manufacturing and marketing the amplifiers listed below in 1977:

Features include: Advanced solid state design, full VSWR and Reverse voltage protection, increased T-R delay for SSB/CW, broadband so no tuning required. Models and prices as listed below:

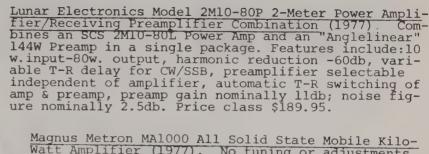
2M10-80L



Lunar Amplifiers meet or exceed emission standards set by F.C.C. in April 1977

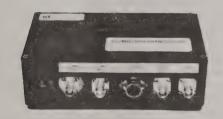
Model Frequency Powing 2M3-30L 144-148 3 2M10-70L 144-148 10 2M10-80L 144-148 10 1.3M10-70L 220-225 10 HF3-100L 3-30 3 HF10-100L 3-30 3 Please add \$3.00 shipping/handling	30 70 80 70 100	(A) 4½ 9 12 9 16	Price \$119.95 \$149.95 \$159.95 \$169.95 \$219.95 \$219.95
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Magnus Metron MA1000 All Solid State Mobile Kilo-Watt Amplifier (1977). No tuning or adjustments over 80, 40, 20, 15 and 10 meters. Mobile 12v DC, base station with optional 13.6V power supply, fully remote controlled, use with any 100w transceiver, heatsink convector-coooled and thermostatically controlled, 8 power transistors rated for operation at infinite VSWR. Power input at 13.6v DC 1000 watts, power output at 13.6v DC 600watts PEP typical, freq. range 2-30MHz continuous, no tuning. Front panel rotary switch or remote control filter selection. Drive level 60 watt PEP 50 ohms. Size 10x17½x4½"H, 17.5 lbs. Price class \$795. PS75 plug-in power supply \$395.



Microwave Modules, Ltd. (Spectrum International, Dist.) line of Transverters (1977). They include a receiving converter so suitable for use with a transceiver. The 1st number indicates frequency of the band, the 2nd number indicates the frequency of the input (or IF output) signal. Power output nominally 10 watts PEP, Input 500 mw down to 5mw if internal attenuator is jumpered. Receiving converter noise figure of 2.5db to 3 db. Good shielding and mechanical stability, crystal oscillator starts high enough to avoid large number of multipliers. Input and output impedance 50 ohms, with BNC connectors used. 7-3/8x2\frac{1}{2}x5\frac{1}{2}"D. Receiver gain 30db typical. Bandwidth 2 MHz typical. Operate 12V DC. Models available as listed below.

of multipliers. Input and output impedance 50 ohms, with BNC connectors used. 7-3/8x2\frac{1}{4}x5\frac{1}{2}"D. Receiver gain 30db typical. Bandwidth 2 MHz typical. Operate 12V DC. Models available as listed below:

MMT 144/28 \$199.95; MMT 432/28 \$239.95; MMT 432/28 Mark 4(broadbanded to cover 4 MHz range to cover weak-signal 432 MHz and the future Oscar 8 at 436 MHz)..\$254.95; MMT-432/50 \$249.95; MMT 438/ATV \$274.95; QMT 432/144 \$164.95; FMT440/146 \$164.95.



Polar Electronic Developments equipment described below is distributed by Spectrum International, Inc.



Polar EDL 144 Linear Amplifier (1977). Contains a high power transmit linear amplifier (5894 PA) and 115v power supply together with a low noise receive preamplifier (2.5db NF). T/R switching is automatic by an internal VOX circuit. Drive power 20w PEP max. Output power 100w PEP max. Rx Pre-Amp gain 20db typical. Size 10x6x7". Price class \$299.95.



Polar EDL 432P Amplifier (1977). Contains a high power triode amplifier (2C39A) with matching power supply(115VAC). The cabinet also contains the cooling air blower, antenna relays, and full metering. Drive power 10w PEP max. Output Power 50W. PEP max. Size: 10x6xll". Price Class \$139.95 (Note: the RF section is also available as a complete sub-assembly without the power supply for use with an external power supply.)

Polar EDT50-28 or EDT144-28 Transverters (1977). Operate in all modes on the 6-meter or 2-meter bands. Receiving is with a MMc50 or MMc144 style converter(now included) mounted inside the cabinet. An external power supply is required for either transverter. Drive power, 10M .5w max; Out-put power 100W PEP max. Rx gain 30db typical; N.F.2.5db typical. Size: 10x6x7"(P.A. design same as the EDL144 amplifier). \$299.95



Racal Communications RA6217 HF Receiver (Gov't surplus). Range 30 MHz to 1 MHz, solid state, with facilities for operating AM, SSB, MCW and FM modes with switched bandwidth selection of 13, 6, 3, 1 and 0.2 Khz. Sensitivity .5uv or better. Has multi-fine tuning to 20 Hz accuracy. Available as government surplus.



Regency Model ACT-T-16K(The Touch)
Digitally Programmable Scanner (1977)
Functions as a (1) Searching Receiver, (2) Priority Receiver, (3) Scanning Receiver. Fully synthesized 16 channel scanner with over 15,000 possible frequencies. Frequency ranges: Lo VHF 30-50 MHz; Hi VHF 146-174 MHz; UHF 440-512 MHz. Sensitivity for 20db quieting: Lo VHF .5uv; Hi VHF .6uv; UHF .7uv. Selectivity + or - 7KHz @6db. Has squelch, scanning channel lights & LED display. Price class \$329.



RF Power Labs All Mode VHF Amplifiers (1977). Operates from II5 or 230V AC. Can supply +13.5VDC to operate most 15 watt transceivers from a rear accessory socket on the amplifier. Models & prices and special features as listed below:

☆ 143-149 MHz No Tuning
☆ 115 or 230V AC

AM - FM - CW - SSB

☆ Low Harmonics

☆ Heavy Duty

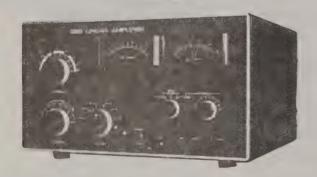
☆ No Power Supply Needed ☆ U.S. Manufactured

☆ 60dB Spurious

☆ Fully Protected Output

☆ Internal T/R Switch

MODEL	INPUT	OUTPUT	PRICE
V70	10-20W	60-70W	\$298
V71	1-5W	60-70W	\$329
V130	25-40W	110-130W	\$389
V131	1-5W	110-130W	\$419
V135	5-10W	110-130W	\$419
V180	10-15W	180-200W	\$525
Univ	\$25		



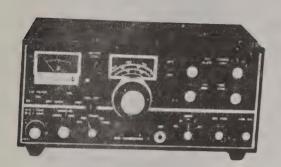
Sigma XR-3000D Linear Amplifier (1977) Full band coverage 160-10 meters including MARS. 2000+ watts PEP SSB input, 1000 watts input CW, RTTY and SSTV continuous duty. 2 Eimac 3-500Z finals, all major HV and other circuit components mounted on single G-10 glass plug in board. Computer grade components, heavy duty 10KW silver plated ceramic band switches. Built in heavy duty antenna changeover relays. Tunedinput circuits. 4" easy to read meters measure plate current, high voltage grid current, and relative RF output. Continuous duty 110 or 220V AC 50/60 Hz power supply built in. 9½x16x15-3/4"D. 90 lbs. \$789.



Swan Model 350A 80 thru 10 Meter SSB Transceiver (1977). 300 watts PEP input SSB, 200 watts DC input on CW 80 thru 10 meters, USB, LSB, CW, oscillators solid state and IC regulated for stability, 5.5 Mhz, 2.7 KHz bandwidth crystal filter; CW sidetone monitor with adjustable pitch and volume; CW audio filter 80 and 100 Hz selectable. Built in 117VAC power supply and speaker. Price class \$599.95. Accessories: VX-2 VOX, 14A DC converter, 1200X linear amp., 350A Xtal Calib.

Swan Model 350D 80 thru 10 Meter SSB Transceiver (1977). Same basic features as 350A above except added feature of: 6 Digit LED frequency display with readout to 100 Hz. Price class \$699.95 with built in A.C. supply and speaker.



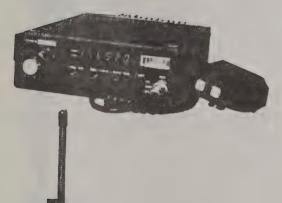


Swan Model SS747 Untransceiver (1977). Features separate transmit and receive operation on individual bands through dual VFOs in one single unit. Will operate on any frequency 3.5 to 30 MHz in 500 KHz steps...USB, LSB, CW with sidetone. 125 watt output, cool-operating, all solid state, digital frequency readout, RIT, panel meter indicating relative power out and receiver signal strength, infinite VSWR protection. Sensitivity .5uv at 10db S+N/N ratio, 300-3000 Hz audio response. Also ALC, mike gain control, VOX, automatic AGC, CW drive control. 2.7 KHz IF bandwidth. Operates from 13.8VDC. 12x6x13½"D, 22 lbs. Price class \$849.95. PSU-1 115/230VAC pwr supply \$151.95. (Optional AM is available)

Swan Model 750CW 80 thru 10 Meter Transceiver (1977). 700 watts PEP input on SSB, 400 watts DC input on CW; 80 thru 10 meters USB, LSB, CW. Features include CW audio filter selectable 80 or 100 Hz. CW sidetone monitor with adjustable pitch and volume control. Selectable 25 or 100 KHz crystal calibrator; standard 5.5 MHz, 2.7 Hz crystal filter. Price class \$679.95. Accessories include PSU-3 AC power supply \$173.95. Also VX-2 VOX, MK-II linear amplifier, DD-76 Digital Dial, 16 pole filter with 140db ultimate rejection. A CW man's ideal Xcvr.



Tec-Kan Synthetran 144 2-Meter Transceiver (19770. Solely an FM transceiver with these features: Push button selection of 6 pre-programmed frequencies with automatic + or - 600 kHz repeater offsets or simplex capability. Easy to adjust front panel dials permit access to the synthesizer and the choice of any two additional frequencies from 142 to 149.995 kHz. Front panel is made of anodized brushed aluminum and is glare free. Operates 8-15 volts DC, 13.6VDC nominal: RF power output 20 watts. 104x104x34" 9 lbs. Price unknown.



Tempo VHF/One Plus 2-Meter FM Transceiver (1977) Offers full 25 watt output or a selectable 3 to 15 watt low power output. Full 144-148 MHz coverage both transmit & receive. Features include remote tuning on the microphone, full phase lock (PLL) synthesized, automatic repeater split selectable up or down giving 800 selectable receive frequencies with simplex and + or - 600 KHz transmit frequencies for each receive channel. Has MARS capability, 5 kHz numerical LED. Price class \$399. SSB operation with SSB/One Adapter optional accessory is available.

TEMPO VHF & UHF AMPLIFIERS

VHF (135 to 175 MHz) Drive Power Output Model No. Price 2W 130W 130A02 \$199 10W 130W 130A10 \$179 30W 130W 130A30 \$189 2W 80W 80A02 \$169 10W 80W 80A10 \$149 30W 80W 80A30 \$159

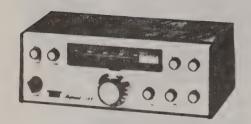
UHF (400 to 512 MHz)

Drive Power Output Model No. Price 2W 70W 70D02 \$270 10W 70W 70D10 \$250 30W 70W 70D30 \$210 2W 40W 40002 \$180 10W 40W 40D10 \$145 2W 10W 10D02 \$125

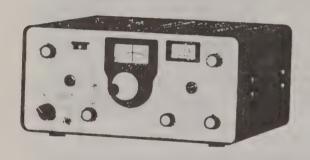
Tempo Handheld Transceivers (1977). FMH-2 2-Meter FM Selectable I or 2 watts output; FMH-5 2-Meter FM Selectable I or 5 watts output; FMH-42 UHF Handheld Transceiver. Solid state, battery level meter, earphone jack. Separate microphone. Built in charging jack for Nicad batteries. Flex antenna. Carrying case. Has excellent stability. Uses 8 AA or 10 AA nicad batteries. Price class \$200.



Ten-Tec Triton IV Digital (Model 544) Transceiver (1977) Range 3.5-30 MHz, MOSFET RF Amplifier with Resonate control for sensitivity of .3uv for 10db S+N/N. 8-pole 9 MHz crystal-lattice IF filter, offset tuning with LED INDICATOR, Digital readout 6 .43" LED digits, reading to 50 Hz accuracy, settable to WWV. Built in speaker with ext. speaker jack. Operates SSB or CW, 200 watts input all bands, instant band change without tuneup. 8-pole SSB filter, automatic sideband selection, front panel ALC control, meter shows SWR when transmitting, S-meter on receive, full CW break-in. 4½xl3-5/8xl3". 12 lbs. Model 544 Digital \$869. (Model 540 same but non-digital \$699). Accessories: 242 Remote VFO, 241 crystal oscillator for 6 spot frequencies; 240 converter for 160 meter operation; 215P mic & stand; 252G protected power supply; 262G power supply plus VOX plus 2 speakers; 249 Noise blanker; 245 CW filter.



Ten-Tec Argonaut 509 Transceiver (1977). 5 bands 3.5-30 MHz, SSB and CW modes, fully solid state, permeability tuning, instant break-in, instant band change, built-in SWR bridge, S-meter, WWV, internal speaker, direct frequency readout, receiver offset tuning. 5 watts input. Automatic sideband selection. Plug-in circuit boards. .5uv receiver sensitivity. 12-14V DC or AC pack power. 42x13'7"D. 6 lbs. \$359. Accessories: Model 206 100 kHz Crystal calibrator \$29; Model 208 CW filter \$29; Model 210 lAmp power supply \$30; Model 215 ceramic mic. \$29.50; Model KR5-A keyer \$39.50.



Ten-Tec Century 21 HF Transceiver (1977) Receives SSB or CW, transmits CW 80-15 meters. 70 watts input, full CW break-in, covers 1 MHz on 10 meters. All solid state, instant no tune band change. Built-in regulated power(AC supply, overload protection. Linear crystal mixed VFO. Direct frequency readout. Offset receiver tuning, defeatable. Built in speaker. A unique double direct conversion receiver, sensitivity 1 uv for 10db S+N/N. Transmitter output 40 watts. 5-3/4 x 12½x 11½"D. 15½ lbs. Price class \$289. CW sidetone has adjustable level. Accessories: 276 Century Calibrator \$29; Century Keyer Model 670 \$29. Crystals included for 80,40,20 m.



UHF Industries Series of Dual Band VHF Amplifiers (1977). One unit covers both 2-Meter and 220 MHz amateur bands. Withstand infinte VSWR at all phase angles when operated at rated power and supply voltage. Automatic T/R switching and a unique microstrip relay that results in almost zero receive loss and megligible mismatch in either the input or output lines during transmit. Model No., Power Rating, and Price class below:

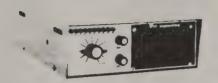
MODEL NO.	2m POWER INPUT	2m POWER OUTPUT	REGULAR AMATEUR NET
2-15	1.5 watts	15 watts	\$ 69.50
2-40	1.5 watts	40 watts	129.50
15-40	15 watts	40 watts	89.50
20-80	20 watts	80 watts	199.50



Valley Instrument Products (Electronic Signal Products, Inc.) VHF FM Receiver Kit (1977). 5 channels, remote switchable, with 146.94 supplied. Sensitivity under .15 uv SINAD. 6 pole crystal filter provides better than 75 db adjacent channel rejection. Image rejection 75db, spurious better than 100db. Operates from 7-12VDC. Has squelch, ideal for pocket receiver or can be built into existing equipment. Compact 2.35 x 4" board. \$49.95. Kit above is identified as Model 144-5. Case, spkr., Also 220 MHz Model 220-5 at \$49.95, are available, as well as other crystals for other frequencies.



Vanguard Labs VHF Receivers (1977). 11 Crystal controlled channels. Available in your choice of frequencies from 135-250 MHz in any one segment from 1-4MHz wide. I.F. bandwidth (channel selectivity) in your choice of + or - 7.5 or 15 kHz. 8-pole xtal filter and a 4-pole ceramic filter give more than 80db rejection at 2x channel bandwidth. Phase locked loop (PLL) detector. Has freq. trimmers for each crystal. .2 to .3uv sensitivity for 20db quieting. Dual-gate MOSFETS and integrated circuits. Self contained speaker and external speaker jack. Mobile mount & tilt stand, aluminum case 6x7xl-3/8". One .001% crystal included. Model FMR 260-PL price: 135-180 MHz \$149.95; 181-250MHz \$159.95.



VHF Engineering TRX50 6 Meter Transceiver Kit (1977). 25 watts out, 10 channel scan. Kit, less mike and crystals, \$229.95

TRX144 Kit: Same as above for 2m., 15 watts out, \$219.95 TRX220 Kit: Same for 220 MHz \$219.95

TRX432 Kit: Same except 10 watts and for 432 MHz \$254.95



VHF Engineering RPT50 6-Meter NBFM Repeater (1977). All solid state with receiver, transmitter, control circuit, C.W. Identifier & 115/230VAC power supply all contained on a standard relay rack panel and chassis unit. PL 259 fittings for 50 ohm coaxial feed. Has external connections for autopatch, tone control, etc. Built in identifier programmed with up to 159 bits. Has automatic emergency battery power changeover capability. Kit \$465.95; Wired & tested \$695.95. Options: TS-1 tone squelch board and TD-3 touch tone decoder.



Westcom Engineering 2 Meter VHF Amplifiers (1977). Ad on units, no internal connections or adjustments needed to associated equipment. Standard amplifier modules operate FM. *'d Linear Models operate all modes: SSB, FM, AM, RTTY, CW, etc. "Microstrip" design for high stability and optimum performance over wide bandwidths. Factory adjusted, no tuning required. Mobile mtg. bracket included. RF sensing T/R switching, adjustable dropout delay. Remote keying capability. Thermally coupled biasing. Reverse voltage protected and fused. Oversized heat sink. Red LED indicators for monitoring DC and RF. VSWR protected. Prices and sizes given in the chart below:



MODEL NO.	INPUT POWER (watts)	NOM OUTPUT (watts)	NOM CURRENT 13.8 VDC	PRICE
2M 3X30	1-4	30	4	\$72.95
2M 3X30L*	1-4	30	4	\$82.95
2M 10X40	2-12	40	5	\$77.95
2M 15X50L*	5-15	50	6	\$94.95
2M 15X80	5-15	80	18	\$129.95
2M 15X80L*	5-15	80	18	\$139.95
NOTES: *Linea		M, SSB, RTT		\$103.33

Wilson Mark II and Mark IV Hand-Held 2-Meter FM Transceivers (1977) Range: 144-148 MHz, 6 channel operation, individual trimmers on all TX and RX Xtals, 12 KHz ceramic filter, 10.7 and 455 kHz IF; microswitch speaker-mic built in, rugged Lexan case, .3uv sensitivity for 20db quieting; improved Rubber Duck antenna included; BNC twist type antenna connector. Uses rechargeable Nicad battery pack. One pair 52/52 xtals included. 6"xl-3/4x2½". 16 oz. Mark II (2.5 watts) \$199.95; Mark IV (4 watts) \$239.95. Accessories: LC-4 leather case, WCl2 AC wall battery charger, BC4 desk type battery charger, SM4 speaker mic, touch tone pad, tone options.

technical specifications and data subject to change without notice



Wilson WE-800 2-Meter Portable Synthesized (1977). 800 channel, 12 watts output in automobile, 2 watt output with internal Nicad battery pack. Nicads charge when used in auto. CMOS low current drain synthesizer Rx 45 milliamps, 2 watt Tx 450 milliamps. Covers frequency range 144-148 MHz in 5 Hz steps. 600 KHz offset up or down. 6 channels sub-audible tones available as option. 84x6-3/4x2". 1 lb. 15 oz. Price class \$389.



Yaesu FT-221R 2 Meter Transceiver (1977). Complete 144 to 148 MHz coverage in 8 band segments. Modes: SSB, CW, FM, AM. Built-in AC/DC power supplies. Selectable + or - 600 KHz repeater offset. Built-in VOX and break-in CW. External tone input connector. Noise blanker. 11 crystal channels per band segment(88 total channels). SSB output 12 watts PEP, FM/CW output 14 watts, AM output 2.5 watts. PLL circuitry. Built in speaker. Sensitivity .5uv for 10db N+N/N ratio. Selectivity 2.4 KHz at -6db. Built in 100 kHz calibrator, Vox, break-in CW. 3-way metering: S meter, power output, FM discriminator. Size(in centimeters) 200x125x295(D). Price class \$595.



Yaesu FT-227R "Memorizer" FM Transceiver (1977). Solid state fully synthesized 800 channel 144-148 MHz, 1 knob channel selection. Features a memory circuit that allows instant return to any frequency selected. 5 KHz steps, 600 KHz offset plus any split using memory circuit. Has built-in tone burst, selectable 10 or 1 watt output. Operates from 12 volt battery or FP-4 optional power supply. Automatic final protection, busy channel indicator, large 4 digit LED readout. Price class \$299.95.

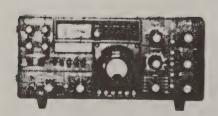


Yaesu FT-301S HF Transceiver (1977). All solid state, I60 thru I0 meters plus receive only for WWV/JJY and Aux band. All Modes: SSB(USB/LSB selectable) CW, AM and FSK. 20 watts PEP. Easily read analog dial, noise blanker, RF speech processor, VOX, Auto break-in on CW w/sidetone, AGC. Sensitivity .25uv for 10db S+N/N; Selectivity 2.4 KHz at -6db. Operates 13.5VDC. Price class \$560

Yaesu FT-301SD HF Transceiver (1977). Same as FT-301S above except Digital Dial read-out using large LED diode. Price class \$750.



Yaesu FL-110 Braodbanded Solid State Linear (1977) 200 watts output when used with the FT-301S or 301SD Transceivers described above. Price class in the \$200 range.



Yaesu FT-901D SSB Transceiver (1977). Full range 160 - 10 Meter coverage, provision for new WARC frequencies. Uses two rugged 6146B's in the final with negative feedback. Modes: LSB/USB,FSK,AM switch selected, variable IF bandwidth 100 Hz to 2.4 KHz selectivity, IF rejection tuning notch, large VFO tuning knob, optional synthesized VFO, or enlarged frequency memory bank, built in keyer and speech processor, calibrator, noise blanker and multi-use meter included. Price class \$1250.

TRANSMITTERS, TRANSCEIVERS, AND AMPLIFIERS from Jan. 1, 1978 to 1979.

```
Model No./Name
                          See...
                                           Type
                                                           Model No./Name
                                                                                     See...
                                                                                                     Type
ACT-R-106...Regency...Scanner
Alpha...prefix for a series of power
amplifiers by ETO
                                                           MMT432/28-S...Microwave Modules...
                                                                                            Transverter
Amperex 110...Amperex...Amplifier
                                                           N888...Northern Radio...Hand Held Trans-
Astro 200A...CIR...Transceiver
                                                                                                       ceiver
                                                           NRD-505...Gilfer...Receiver
B108...Mirage...Amplifier
BCR-101...Lafayette...Receiver
Bearcat 211...Bearcat...Scanner
Bearcat 220...Bearcat...Scanner
                                                           Omni-A...Ten-Tec...Transceiver
                                                           Omni-D...Ten-Tec...Transceiver
Bearcat 250...Bearcat...Scanner
                                                           PA-... Prefix for a series of Amplifiers
                                                                                              by KLM
C-118...Standard...Hand Held Trans-
C-6500..Standard...Rcvr. ceiver
                                                           Pace Communicator I....Pathcom...Trans-
                                                                                               ceiver
Clipperton-L... Dentron...Amplifier
Communicator I (Pace)...Pathcom...Hand
                                                           Pace Communicator II...Pathcom...Trans-
                                                                                                ceiver
Held Transceiver
Communicator II (Pace)...Pathcom...Hand
Held Transceiver
                                                           PTR-130K...Palomar...Transceiver
                                                           R90...Hamtronics...Receiver
CPU-2500R/K...Yaesu...Transceiver
                                                           R-820...Kenwood...Receiver
                                                           RA6700...Racal...Receiver
                                                           RA6772...Racal...Receiver RA6774...Racal...Receiver
DTR-2000L...Dentron...Amplifier
FM-80...Comtronix...Transceiver
                                                           RA6780...Racal...Receiver
FM2016A...KDK...Transceiver
                                                           RF-4800...Panasonic...Receiver
FMS-25...Edgecom...Transceiver
FRG-7000...Yaesu...Receiver
FT-7...Yaesu...Transceiver
                                                           Rockhound...Kantronics...Transmitter
                                                           RPT-1B...Standard...Repeater
                                                           RX-110...Atlas...Receiver
FT-7B...Yaesu...Transceiver
FT-101ZD...Yaesu...Transceiver
FT-202R...Yaesu...Hand Held Trans-
                                                           Sl...Tempo...Hand Held Transceiver SlT...Tempo...Hand Held Transceiver
                                                           S240...Amcomm...Transceiver
                                  ceiver
                                                           SCR1000/SCAP...Spectrum Communications...
FT-225R...Yaesu...Transceiver
FT-225RD...Yaesu...Transceiver
FT-227RA..Yaesu...Transceiver
                                                                                                Repeater
                                                           SMA-100...SEI...Amplifier
FT-625R....Yaesu...Transceiver
FT-625RD...Yaesu...Transceiver
                                                           SMA-101...SEI...Amplifier
                                                           SPA-100...SEI...Amplifier
GLA-1000...Dentron...Amplifier
                                                           SPA-101...SEI...Amplifier
                                                          SST A-1...SST...Amplifier
Switchable Mark II, Mark IV...Wilson...
Hand Held Transceivers
Gunnplexer...Microwave Associates...
                               Transceiver
Ham-10...Bristol...Transceiver
Ham-100...Bristol...Transceiver "Handie"...Yaesu...Hand Held Trans-
                                                           T50...Hamtronics...Transmitter
T50U...Hamtronics...Transmitter
                                                           T-220-28...Lunar...Transverter
                                                          Telco 125...Telco...Amplifier
Tenham-153...Ten Corp....Transceiver
"The Handie"...Yaesu...Hand Held Trans-
HC-1400...NDI...Transceiver
HF 1030...Communications Product...
                                  Receiver
Hi Pro Mk I... Maggiore... Repeater
                                                                                                 ceiver
                                                          "The Touch"...Regency...Scanner
"ThinScan"...Bearcat...Hand Held Scanner
TL-922...Kenwood...Amplifier
HW-2036A...Heath...Transceiver
IC-202S...Icom...Transceiver
                                                           TL-922A...Kenwood...Amplifier
Touch K100...Regency...Scanner
IC-245/SSB...Icom...Transceiver
IC-280...Icom...Transceiver
                                                          TR-7...Drake...Transceiver
TR-7/DR-7...Drake...Transceiver
TR-7600...Kenwood...Transceiver
IC-402...Icom...Transceiver
IC-701...Icom...Transceiver
IKD-5...Henry...Amplifier
                                                           TR-7625...Kenwood...Transceiver
                                                          TS-120S...Kenwood...Transceiver
TS-700SP...Kenwood...Transceiver
TX-110-L...Atlas...Transmit Module
K100...Regency...Scanner
LPA... Prefix for a series of ampli-
            fiers by Hamtronics
                                                           TS-110-H...Atlas...Transmit Module
                                                          V-...Prefix for a series of Amplifiers
by RF Power Labs
Mark II...Wilson...Hand Held Trans-
                                  ceiver
                                                           V350...RF Power Labs...Amplifier
Mark IV...Wilson...Hand Held Trans-
                                                          VF-2031...Heath...Hand Held Transceiver VHF...Prefix for a series of Amplifiers
                                  ceiver
Memorizer...Yaesu...Transceiver
Memorizer "Plus"...Yaesu...Transceiver
                                                                                              by Lunar
Micro-Com...Regency...Hand Held Trans-
                                     ceiver
                                                           XV2-...Prefix for a series of Trans-
Mini-1...Palomar...Hand Held Trans-
                                                                              verters by Hamtronics
MLA-2500B...Dentron...Amplifier
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MML144/100...Microwave Modules...

MML432/100...Microwave Modules...

Amplifier

Amplifier

1.3M...Prefix for a series of amplifiers
by Lunar

1.3M 15x70...Westcom...Amplifier
2M...Prefix for a series of amplifiers
by Lunar

2M-...Prefix for a series of Amplifiers
by Westcom

76A (Alpha)...ETO...Amplifier

76CA (Alpha)...ETO...Amplifier

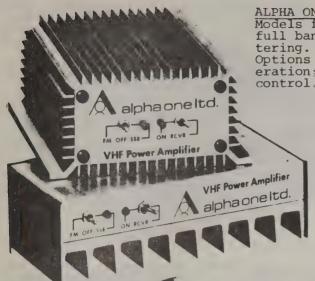
78 (Alpha)...ETO...Amplifier

78 (Alpha)...ETO...Amplifier

13-510A...Midland...Transceiver
13-513...Midland...Transceiver
100 MX...Swan...Transceiver
110...Atlas...Transceiver
144-5...ESP...Receiver
146C...Prefix for a series of amplifiers
by Alpha One

374A (Alpha)...ETO...Amplifier
545...Ten-Tec...Transceiver
546...Ten-Tec...Transceiver
750L...TPL...Amplifier
1200Z...Swan...Amplifier
1500Z...Swan...Amplifier
2002...TPL...Amplifier

8040-B...Kantronics...Receiver

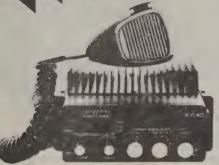


ALPHA ONE Ltd. Series of Linear Power Amplifiers (1978). Models from 25 to 300 watts out, 1 to 35 watts drive; full band coverage; harmonic-free stripline output filtering. Prices as indicated on the chart to the right. Options include bias switching for fully linear SSB operation: a low noise receiver preamp; a local/remote control. (other 14 and 3/4 meter models available).



Popular 2-Meter Models

Model	Drive	Nominal	Price
Number	Power	Output	
146C225	1-5 W	25 W	\$ 54.95
146C1070	5-14 W	70 W	139.95
146C10160	5-14 W	160 W	229.95
146C2300	1-5 W	300 W	379.95
146C25300	15-35 W	300 W	339.95



AMCOMM Model S240 2-Meter Mobile Transceiver (1978). Full frequency coverage of 800 channels in 5kHz increments from 144 to 147.995MHz. May be remotely mounted in the trunk or under the seat. Hi-low power switch from 1-7.5 watts low/40 watts high. American made. Price class \$485.



Amperex Electronic Corp. AMPEREX 110 2-Meter Amplifier (1978). Solid state broadband linear amplifier. Power output 100 watts nominal with 10 watts drive, 144-148 MHz. Power requirement 13.6 volts at 20 Amps. Designed for base, mobile and repeater operation. Operates 100% key down; full VSWR-protected. Size 3x5\(^12x8\)\(^12y\), 3-3/4 lb. FM or SSB modes. Price class \$189.90.



Atlas Radio Model RX-110 5-Band Receiver (1978). All solid state, covers 80,40,20 and 15 meters and 28 to 29mHz of the 10 meter band. Fully self-contained AC supply, built in speaker, can operate 12 to 14VDC. High sensitivity, selectivity and dynamic range. Price class \$229. Designed to accept the Atlas Transmit Modules described below for a complete CW-SSB transceiver. Receiver uses crystal filter, band-pass filters, and diode ring mixer.



Atlas Radio Plug-In Transmit Module (1978). Plugs into the back of the RX-110 Receiver above. Utilizes the VFO and other elements of the RX-110. Choice of two models at different input and output power levels: (1) Model TX-110-L 15 watts input on 20,40, and 80 meters; 10 watts input on 10 and 15 meters, and runs on the AC supply in the RX-110 Receiver. Price class \$159. (2) Model TX-110-H runs 200 watts input on 20,40, and 80 meters, 150 watts on 15 and 100 watts on 10 meters, and requires an additional AC high current pwr supply Model PS-110 costing \$89. Price class of the Model TX-110-H is \$249. Either model will run directly from a 12 to 14 volt DC battery for mobile or portable operation, provide CW and SSB mode operation, have semi-breakin CW with sidetone monitoring, PTT operation on SSB. Lower sideband on 40 and 80 meters, upper sideband on 10,15 and 20 meters. Brackets for joining the transmit module to the RX-110 receiver are supplied. This transceiver then slides into a plug-in mobile mount, Model MM-110 for mobile operation.

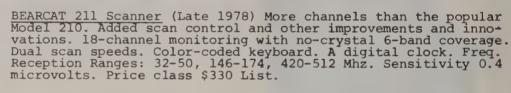


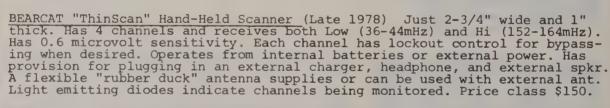


ATLAS Radio Model 110 Transceiver (1978) All solid state, covers 80 thru 10 meters. SSB and semi-break-in CW with sidetone. 20 watt input power. Has self-contained power supply and speaker with high sensitivity and selectivity. It is available in a number of models as listed and described below: 20W Model 110 (20 watts input) Standard Transceiver \$388. 20W Model 110 Special Transceiver which includes RIT, CW Filter, and RF Gain Control \$428. *250W Model 110 (250 watts input power) Standard Transceiver \$478; *250W Model 110 Special Transceiver which includes RIT, CW Filter, and RF Gain Control \$518. *Note: The 250 watt models require a separate Model PS-110H AC power supply, \$89. (Note: The receive portion of the Atlas Model 110 Transceiver is available separately as the Atlas RX-110 receiver at approx. \$249.)

BEARCAT 250 Scanner (1978). 50 channels(five banks of 10 channels each) push button selected, crystalless, searches new frequencies, stores up to 64 frequencies and recalls them 1 at a time, automatic count remembers how often frequencies are activiated by transmission, decimal display shows channel and other programmed features. Priority samples your programmed frequency every 2 seconds. Has a digital clock showing time at the push of a button. \$400.

BEARCAT 220 Scanner (Late 1978) Aircraft, public service, and amateur frequencies scanner. 7 bands, Low and High VHF, UHF, UHF-Government, UHF-T, 2-meter and 3/4 meter amateur, and aircraft. Up to 20 frequencies may be scanned at one, or frequencies can be arranged into 2 banks of 10 frequencies, allowing selection of the bank of most interest. Has normal search operation, also searches all marine or aircraft frequencies by pressing a button. These frequencies are already stored in memory so no reprogramming is required. Also features a priority channel, dual scanning speeds, patented track tuning and direct channel acces. Frequency reception ranges are 32-50, 118-136, 144-174, and 420-512 MHz. \$379.95.







BRISTOL Electronics Ham-10 and Ham-100 10 Meter Band Channelized Transceivers (1978). Ham-10 Low Power 10 watts; Ham-100 High Power 100 watts, Low Power 10 watts switch selected. Frequency is 28.965 to 29.405, 40 channels with channel 40 overlap for OSCAR in the future. Features include ultra-low spurious emissions, Phase Lock Loop frequency synthesizer, 100% solid state, receiver sensitivity .7uv for 10db S+N/N. External jack for a speaker, ANL and Delta tune adjustment, S/RFPower meter, LED modulation indicator, squelch control, mntg. hardware, microphone. AM modulation. Operate on 13.8VDC. Compact size. Price class: HAM-10 \$150, HAM-100 \$265.



CIR Industries ASTRO 200A Touch-Tune Microphone Transceiver(1978). Digitally synthesized remotely electrically tuned with controls on the microphone. All solid state, 80-10 meter coverage, 200 watts PEP input, full RF filtering, digital readout, squelch, variable speech processing, full metering, WWV reception, VOX, LSB-USB-CW. Low freq. drift, effective noise blanker, operates 12VDC, mobile or fixed station. Compact. Has ANL, high VSWR protection circuit, internally lighted meter. Price class \$1095. NOTE: Touch-Tune Mike and modification kit to update the ASTRO 200 is available for \$50 from CIR.



COMTRONIX FM-80 10 Meter FM Transceiver (1978). 10 watts output and 80 10kHz-spaced channels on the high end of 10 meters (28.9 to 29.7mHz). Switchable, simplex operation only, PLL freq. synthesizing, operates on 13.8VDC. F3 + or - 5kHz deviation FM modulation. Recvr sensitivity .5uv for 20db quieting. adjustable squelch(.5uv threshold) Included in the price of \$269 is a mic. w/coil cord/plug, mounting bracket, and power cord. Has LED digital channel readout. Size 2½x6½x8-3/4"D.



COMMUNICATIONS PRODUCT PRODUCT CORP. Model HF 1030 Communications Receiver (1978). Covers 10kHz to 30mHz in 10 Hz steps. Features include frequency preset, remote control, and remote programmability permitting use in computer-based communications systems. Receives all modes: AM,SSB, and CW, 455-kHz output for FSK demodulation (FSK filter is built in), selectable I-F bandwidths, electronic bandpass tuning, excellent strong-signal overload immunity. Sensitivity on CW, FSK, and SSB is typically .5uv for 10db signal-to-noise ratio. Uses 8-pole crystal filter, very effective AGC system, squelch system. Modular construction with easy access to all assemblies; operates on 110/220V AC or 15/25V DC. 8½x5½x14½"D. Price class \$4,500. Uses LED displays. The CMOS memories and standby battery provide storage of frequency data for a year or more and will return to the previously tuned freq. upon restoration of pwr. Fully synthesized BFO provides a + or -5kHz tuning range.



DENTRON Clipperton-L Linear Amplifier (1978). Covers 160 thru 15 meters plus most MARS frequencies just outside Ham bands, 2000 watts PEP on SSB, 1000 watts DC on CW, RTTY, or SSTV. 117V or 234V AC 50-60 Hz. 4 rugged 572B's in the final, hi-lo power selector, vacuum impregnated power transformer, widespaced tuning and loading capacitors, built-in ALC, whisperquiet cooling sytstem. Price class \$600.



DENTRON DTR-2000L Linear Amplifier (1978). Covers 160-15 meters & most MARS frequencies. Continuous lKW input on CW,SSTV, RTTY and 2KW PEP input on SSB. Has built in adjustable ALC, easily changed 117v or 234v AC, 50-60 Hz. Uses 8877 tube, vacuum impregnated power transformer, forced air cooling, dual metering, FCC type accepted. Price class \$1100.



DENTRON GLA-1000 Linear Amplifier (1978). Rated at 1200 Watts PEP SSB and 1000 Watts CW input, uses 4 D-50A(6LQ6) final amplifier tubes, 80 to 15 meter frequency coverage plus most MARS frequencies just outside amateur bands. Features include reverse scale black-out multimeter for monitoring of currents & voltages, complete compatibility with any exciter or transceiver, transmit indicator light, built-in relative power meter for easy tune-ups. Super compact, set up for 117V AC. \$379.



DENTRON MLA-2500B Linear Amplifier (1978) Freq. range 1.8mHz to 21mHz. 2000 watts PEP input on SSB using 2 Eimac 8875's and a heavy duty power supply, full metering and controls from the front panel, plus hi-lo power switching. 1000 watts DC CW, RTTY or SSTV. Forced air cooling, ALC circuit. Power supply is self-contained. Price class \$900.



DRAKE TR-7 Transceiver (1978). Uses a 48mHz IF for flexibility in freq. coverage and good image rejection. Solid state synthesized/PTO Freq. control with lkHz dial and 100 Hz digital readout. 500kHz up-down range switching is pushbutton controlled. Continuous receiver coverage 1.5 thru 30mHz, transmit coverage 160-80-40-20-15-10 meter bands. SSB w/USB, LSB 250w. PEP. CW 250w, AM 80w carrier plus upper sideband. Broadband tuned circuits, internal heatsink, operates on 13.6VDC. Receiver sensitivity .5uv for 10db S+N/N ratio, 80db imate and IF rejection. Price class \$886. Options include DR-7 General coverage/Digital readout Board \$186,

RV-7 Remote VFO \$156, PS-7 AC Supply 120/240 50-60hz; Aux-7 Range Program Board \$38, MS-7 Matching speaker \$33, NB-7 Noise Blanker \$74, FA-7 Fan \$24, MMK-7 Mobile Mounting Kit tba, SL-300 CW filter, SL-500 CW filter, SL-1800 SSB/RTTY filter, SL-6000 AM filter.

<u>DRAKE TR-7/DR-7 Transceiver</u> (1978). Combines the TR-7 Transceiver described above plus the DR-7 General Doverage/Digital Readout Board. Price class \$1295.



EDGECOM FMS-25 Transceiver (1978). Full coverage 144-147.995mHz, 10 front panel programmable memory channels, a built in band scanner, any transmitter offset, electronic push-button tuning, a PLL synthesizer. A 5-pole front end for intermod-free reception, a 10-pole IF filter for adjacent channel rejection, 25 watts of output power. Mobile or fixed operation. Price class \$440.



ESP(Electronic Signal Products, Inc.) Model 144-5 VHF-FM Receiver Kit (1978). Sensitivity under .15uv SINAD, 5 channels remote switchable, 6 pole xtal filter for 75db adjacent channel rejection, image rejection 75db. Audio output 250mw. Operates 8-20VDC. Compact 2½x4"board. Pr.class \$60. Compact aluminum case \$9.95; Spkr/control kit \$19.95.

Other Kits available: 29, 50, 220 and 440mHz, prices comparable.



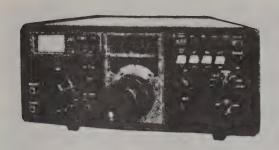
ETO(Ehrhorn Technological Operations, Inc.) Alpha 76CA HF Linear Amplifier (1978). Maximum legal power, 1200 watts of plate dissipation, 3 - Eimac 8874 tubes, 2.4 KVA Hypersil transformer, accoustic-isolation blower system ducted air cooling. Price class \$1,900. Alpha 76A (2 3874 tubes) \$1,400. Alpha 76PA (3 8874 tubes) \$1,700.



ETO Alpha 374A HF Linear Amplifier (1978). Delivers full legal power in any mode on all amateur HF bands without tune up (on 160m the output is peaked manually). Uses 2 8874 tubes and is a no tune up version of the 76A. Price class is \$1,800.



ETO Alpha 78 HF Linear Amplifier (1978). Full legal power, no tune-up bandchange, full instant CW break-in (QSK). Uses 3 8874s with a 2.4KVA Hipersil Xfmr. Said to be rugged, cool and quiet. Price class \$2,400.



GILFER SHORTWAVE Model

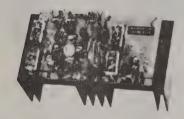
NRD-505 General Coverage Receiver (1978). (Available from Gilfer Shortwave). 100kHz to 30mHz, advanced solid state, phase locked loop (PLL) Digital Synthesizer, programmable memory. Two readout systems: digital 6 LEDs for 100 Hz accuracy) and analog (1kHz accuracy. Up-conversion double superheterodyne, built in noise blanker, 3-position mechanical and ceramic filters, 2-speed electronic tuning (100kHz and 33 kHz per turn) and 30-position electronic band switch.

.5uv sensitivity on CW & SSB, stability less than 100 Hz per hour. Image rejection 70db or more. Price class \$2275, memory option \$125, CW filter \$50.



HAMTRONICS, Inc. Transmitting Converters (1978). Price each \$59.95

FEATURES:	MODEL	INPUT (MHz)	OUTPUT (MHz)
• Linear Converter for SSB, CW, FM, etc.	. X V 2 - 1	28-30	50-52
• A fraction of the price of other units	X V 2 - 2	28-30	220-222
•2W p.e.p. output with 1 MW of drive	X V 2 - 3	28-30	222-224
•Use low power tap on exciter or attenuator pad	X V 2 - 4	28-30	144-146
● Easy to align with built-in test points	X V 2 - 5	28-29	145-146
	X V 2 - 6	26-28	144-146



HAMTRONICS, Inc. VHF Linear Power Amplifiers (1978). Use as linear or class C Power amplifiers LPA 2-15 Kit \$59.95. Power output is 15w. as a linear amplifier, or 20w class C. Solid state T/R switching. Models for 6m, 2m, or 220mHz. 2w input. Price class \$59.95 each kit.



HAMTRONICS, Inc. VHF Linear Power Amplifier Model LPA 2-45 Kit (1978). 45w out (linear) or 50w (class C). Models for 6m. or 2m. Price class \$109.95. 2w. input for max. output.

HAMTRONICS, Inc. VHF Linear Power Amplifier Model LPA 8-45 Kit (1978). For 2m, 8-10w in, 45 w. out. Price class \$89.95.



HAMTRONICS, Inc. UHF Power Amplifier (1978). Broadband Power Amplifier, no tuning required, Class C PA. 430-470mHz, 13-15w out with 200mw drive. Price class wired & tested \$79,95.



HAMTRONICS, Inc. VHF & UHF FM Receiver Kits (1978). R70 6-channel VHF receiver kit for 2M, 6M, 10M, 220 MHz, or commercial bands. Price class any kit \$69.95. Optional Xtal filter for 100db adjacent channel \$10.



HAM TRONICS, Inc. UHF Receiver Kit Model R90 for any 2 MHz segment of 380-520 MHz band \$89.95.



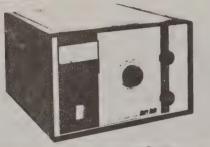
HAMTRONICS, Inc. FM/CW Exciter Kits (1978). Rated for continuous duty, professional sounding audio, built-in testing aids. Model T50 6-channel, 2w Exciter for 2M, 6M or 220 MHz, \$49.95 any kit.

Model T50U 6-channel, lw. exciter for 430-450 MHz UHF \$49.95.



HEATH HW-2036A 2-Meter Transceiver Kit(1978) Allows operation on any 4mHz segment of the 143.5 to 148.5 operating range. Features a phase-locked synthesizer/VCO loop for switch selectable QSY operation, and choice of simplex or standard +or- 600kHz split. Sub-aud ible tone encoding, built in 5 and 11 VDC regulators, hash filter/regulator and gimbal mount. Sensitivity .5uv for 12db SINAD (or 15db quieting). Transmitter power output 10 watts. Freq. increments 5kHz. Operating voltage 12.6 to 16VDC. 8-pole crystal filter is emplyed for selectivity. Kit HW-2036A-2 with standard PTT mike \$269.95. Kit HW-2036A-1 includes the HD-1984 Micoder II combination mike/autopatch and is priced at \$289.95. Size is 2-3/4x84x9-7/8" Deep. 64 lbs.

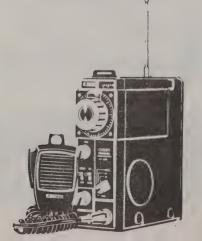
HEATH VF-2031 2-Meter Hand Held FM Transceiver (1978). 2 watts output, spurs down 60db, separate speaker and microphone, 8 crystal controlled channels, +or-600kHz offsets for a total of 8 receive and 24 transmit channel versatility. Includes a nickel-cadmium battery pack and 120/240 VAC battery charger into which the VF-2031 drops in. Also includes a 'rubber duckie' antenna and earphone. Has volume and squelch controls, BNC type output connectors, 3-position simplex/offset switch. Kit VF-2031 \$189.95. VFA-2031-2 fitted holster case \$17.95. Auto-patch encoder (shown attached in picture) \$34.95. Crystal Certificates \$6.95. VFA-2031-5 Continuous Tone Encoder (builds right in VF-2031 case) \$34.95.



HENRY RADIO IKD-5 Power Amplifier (1978).
1200 watt PEP input (700watt PEP nominal output), linear, covering the 80, 40, 20 and 15 meter amateur bands. Uses an Eimac 3-5000Z glass envelope triode operating Grounded Grid circuit. Features include an ALC circuit to prevent overdrive, DC antenna relay, relative power output meter, rotary silver plated tank circuit, cathode pi input matching circuits, conservatively rated power supply with solid state rectifiers. Operates SSB, CW, RTTY or AM. 8-3/4x14x15 Deep. 48 lbs. Price class \$695



ICOM IC-701 Synthesized HF Transceiver (1978) Features include single knob frequency selection, dual VFO's digitally synthesized independently selectable, 100 watts output, not tune final, fully synthesized tuning, bandspread of 100 Hz per division and 5kHz per turn, all modes SSB, CW, RTTY, SSTV with continuously variable bandwidth, double balanced Schottky Diode 1st mixer, RF speech processor and VOX, fastbreak in CW, RIT, AGC, Noise Blanker, full metering. 160-10Meter coverage. .25uv sensitivity for 10db S+N/N, spurious response rejection better than 60db, harmonic and spurious rejection 60db below peak power. Operates 13.8VDC. Price class \$1,500.



ICOM IC-202S 2-Meter Portable SSB/CW Portable Transceiver (1978) 144-146 mHz coverage, power output 3w PEP and CW, Single superheterodyne receiver with .5uv sensitivity for 10db SINAD, selectivity 1.2kHz at -6db, 2.4kHz at -60db, lw. audio output, carrier suppression 40db, spurious radiation -60db, mic. impedence 600 ohms. Operates 13.8VDC provided by batteries. 183mmx6lmmx162mm(D), weight with batteries 2kg. Price class \$260.

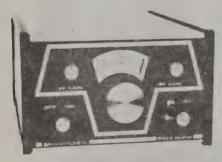
ICOM IC-402 UHF Portable SSB/CW Transceiver (1978. Covers 430-435.2mHz in any 4 200kHz bands. RF power output 3w. PEP SSB and 3w. CW. Carrier Suppression 40db, spurious radiation -60db, double superhetereodyne receiver with .5 uv at 10db SINAD sensitivity, selectivity 1.2kHz at -6db, 2.4kHz at -60db, audio output 1w., mic. impedence 600 ohm and operates 13.8VDC provided by batteries . 183mmx61mmx 162mm(D), weight with batteries 2kg. Price class \$260.



ICOM IC-245/SSB Multi-Mode Mobile Transceiver (1978). Maximizes FM, SSB and CW mobile operation. Features include single knob frequency selection, two VFO's built in, variable offset from 10kHz thru 4kHz, Remote programming using an LSI chip synthesizer, FM stability on SSB and CW with synthesis of 100 Hz steps. Freq. coverage 144 to 148mHz, .5uv sensitivity for 10db S+N/N, 10 watts output PEP SSB, 10w. CW, 10w. FM. Spurious response -60db or better, spurious radioation -60db below carrier. Mic. impedence 600 ohms. Synthesizer step size 5kHz for FM, 100 Hz or 5kHz for SSB Size 90mm x 155mm x 234mm(D), weight 6.8Kg. IC-245/SSB Price class \$600.



ICOM IC-280 Remotable 2-Meter Mobile (1978). Has detachable microprocessor control head providing memory and freq. control for the remotely mountable main section. Can be used connected in the normal manner also. Freq. coverage includes 144.5 - 145.5 MHz repeaters and exceeds the 2-meter band. Microprocessor head stores 3 freqs. of your choice selected by a 4-position front panel switch. FET front end, IF crytal monolithic filters in 1st IF, ceramic in the 2nd IF for 7.5kHz at -6db, 15 kHz at -60db. Double superheterodyne receiver with .luv sensitivity at S+N/N at 30db. Selectable lw or 10w output. 58mmx156mmx228mm(D), weight 2.2Kg.Audio output(80hms) 1.5watt. Freq. coverage 143.90-148.11mHz. 13.8VDC operation. Price class \$400.



KANTRONICS 8040-B CW Receiver (1978). Measures only 3x5x7 inches(HWD) and runs on 2 9-volt transistor batteries. A direct conversion receiver covers 100kHz on each band, 80 and 40 meters including the entire Novice sections. Sensitivity of .luv provides readable signals. Employs MOSFET mixer and FET Colpitts VFO. Vernier type tuning dial, selectivity 1kHz at -6db. Freq. coverage: 3.65-3.75mHz; 7.05-7.15 MHz. Headphone jack(no internal spkr) is 8-ohm impedence, Motorola-type jack. Has both RF gain and audio volume controls. Price class \$80.



KANTRONICS Rockhound ORP CW Transmitters (1978). Generate a l watt CW signal. Separate models for 40 or 80 meters. Crystal controlled. Small 3½x4x½(HWD). Powered by 12-15 VDC in line with the key. Has an internally adjustable pi-network to peak power output into a 50 ohm antenna impedence. Price class \$26. Crystals price class \$3.



SHOWN WITH OPTIONAL µP-800 MICRO PROGRAMMER

KDK FM2016A2-Meter Transceiver (1978). All solid state CMOS PL digital synthesized, 5kHz steps 144-148.995mHz for 1000 channels + MARS-CAP and Multiple Offset. Huge 3/8" LED Digital Readout. 4 channel RAM scanner with IC memory and auto transmit: Program any 4 frequencies and reprogram at any time using front panel controls. Internal multi-purpose tone oscillator. Aircraft type large 100kHz and small 10kHz coaxially mounted knobs. Full automatic tuning of receiver front end and transmitting circuits, RIT, Multi-purpose meter, .25uv receiver sensitivity, 15 pole filter as well as monolithic crystal filter, high low power output of lwatt and 16 watts. Has accessory socket, fully regulated integral power supply, RF attenuator, dynamic mic, builtin speaker, mobile mtg. brackets. 2½x7x7½(LWD) 5 lbs.\$400 Regulated AC/ps Model FMPS-4R \$39.95. (Price of the uP-800 Microprogrammer is unknown).



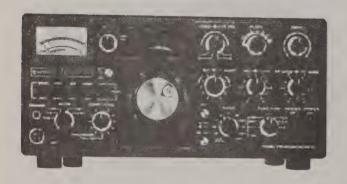
KENWOOD TS-120S HF SSB/CW Transceiver (1978). All solid state with wideband RF amplifier stages, up to 200w. PEP, no final dipping or loading, no transmit drive peaking, no receive preselector tuning, simply dial the frequency desired and operate. 5 bands plus WWV 80/75,40,20,15 and all of 10 meters, receives WWV on 15mHz. LSB,USB and CW modes. Digital Freq. display. 100-Hz resolution. Advanced PLL circuit, analog subdial for backup display, noise blanker. 3½x9½x13½(LWD), weight 4.9kg. Price unknown at this writing. Use with matching accessories VFO-120 remote VFO, SP-120 external speaker, PS-30 AC power supply, MB-100 mobile mount bracket, & YK-88C CW filter.



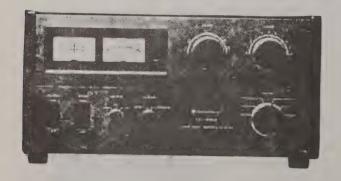
KENWOOD TR-7600 (10 watts) and TR-7625 (25 watts) 2-Meter Transceivers (1978) Featuring memory channel, mode switch for simplex or switching transmit freq. up or down, full 4mHz coverage 800 channels, 5kHz offset switch, digital freq. display LEDs, dual concentric knobs in 100kHz and 10kHz steps, 144-147.995, MHz selector switch for the desired band(144,145,146 or 147mHz), unlock indicator. Price class \$425. Can be used with Kenwood RM-76 Microprocessor for additional functions.



KENWOOD TS-700SP 2-Meter Transceiver (1978) Now covers the repeater subband 144.5 to 145.5mHz. 4mHz band coverage 144 to 148mHz, automatic repeater offset capability including 144.5-145.5mHz). 11 crystals provide 44 channel transmit/receive capability. Operate all modes: USB,LSB,FM,AM,CW. 10 watts RF on SSB,FM,CW, 3 watts on AM, 1 watt FM low-pwr switch. .25uv for 10db S+N/N SSB,CW sensitivity, .4uv for 20db quieting FM. Digital readout, receiver preamp, VOX, semi-breakin CW, CW sidetone, all solid state, AC and DC power supply. Price class \$729.



KENWOOD R-820 Triple Conversion Ham-Band Receiver (1978) Covers 160 thru 10 meters plus several shortwave broadcast bands. Features include 8.33mHz, 455kHz, & 50kHz IFs, digital readout, notch filter, IF shift, variable bandwidth tuning, noise blanker, stepped RF attenuator, 25kHz calibrator, RIT switch. Operates AM,CW, USB,LSB, RTTY modes. Has a transceive/or separate operation switch.



KENWOOD TL-922 Linear Amplifier (1978) 160 thru 10 meter coverage, uses 2 Eimac 3-500Z tubes in grounded grid AB2, has time delay fan circuit. 80w drive for full output of 2000W PEP input on SSB, 1000w DC on CW, RTTY. Power required is 120 or 220/240 VAC, 50/60 Hz. Transformer is thermal protected. Input impedance 50 ohm unbalanced at better than 1.5 SWR. Output impedance 50 to 75 ohm unbalanced 390mmx190mmx407mm (LWD) 31Kg. \$1100 List.

KENWOOD TL-922A Linear Amplifier (1978) FCC Type accepted runs the full legal limit on all ham bands from 160-15meters. Price unknown at this writing.

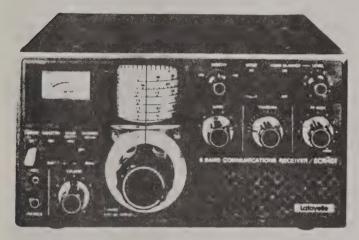


KLM Electronics PA15-160BL 2-Meter Mobile Amplifier (1978) 144-148 MHz, FM & Selectable SSB, 15w. input = 160w.out. Requires 13.5 volts at 22 amps. VSWR protected. Full length heat sink fins top and sides. Thermal protected. Price class \$290.

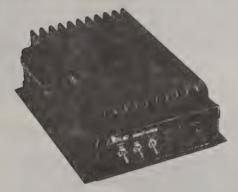
OTHER KLM AMPLIFIERS - All protected for overtemp, VSWR, and reverse polarity. Class C types for FM/CW, Linears for SSB/AM/FM/CW. Black anodized containers.

New Model	List Price
PA 2-25B	\$ 69.95
PA 4-70BL	189.95
PA 15-40BL	109.95
PA 15-80BL	179.95
PA 15-160BL	259.95
PA 45-140BL	219.95
PA 4-70BC	189.95
PA 15-60BC	164.95
PA 45-120BC	209.95
PA 4-40C	169.95
PA 15-35CL	154.95
PA 15-110CL	279.95

144-148 Mhz Amplifiers			
PA 2-70B	159.95	220-225 Mhz Amplifiers	
PA 2-70BL	169.95	PA 2-70BC	169.95
PA 2-140B	229.95	PA 10-60BC	149.95
PA 10-40B	83.95	PA 30-120BC	189.95
PA 10-40BL	94.95		
PA 10-70B	139.95	420-450 Mhz Amplifiers	
PA:10-70BL	149.95	PA 2-40C	149.95
PA 10-80BL	159.95	PA 10-35CL	139.95
PA 10-140B	199.95	PA 10-70CL	249.95
PA 10-140BL	215.95		
PA 10-160BL	229.95		
PA 30-140B	179.95		
PA 30-140BL	189.95		



LAFAYETTE BCR-101 6-Band Communications Receiver (1978) 6-Band receives international and local shortwave, marine, amateur, CB, and AM broadcasts. Features include a drum-type tuning dial with separate calibrated bandspread tuing on 3 bands, a 50/500kHz marker tone(crystal calibrated circuit), variable bandwidth, an adjustable noise blanker, front mounted speaker, and a tracking control and dual conversion receiver for maximum sensitivity on each band. Solid state, has BFO for CW reception, operates on 110v AC 50/60 Hz or 13.8VDC. Receiver sensitivity is luv or better (.2 uv for 10db S+N/N), selectivity 5kHz wide, 4kHz narrow. 7x12x9½(HWD) 13½ lb. Price class \$250.



LUNAR Electronics Model 2M10-250P Linearized SSB Amplifier (1978). Linearized for SSB use. 3 watts in for 125 watts out. 10 watts in for 250 watts output. \$400,Covers entire 144-148 2M band without tuning.) LUNAR Model 2M25-150P Linearized SSB Amplifier (1978) Very linear amplifier compatible with all SSB rigs up to 25 watts. 10 watss in, 100 watt output. 25 w. in, 150 watts output. Covers entire 144-148 2m.band without tuning. Price class \$300.

OTHER LUNAR ELECTRONICS AMPLIFIERS AVAILABLE 1978

BI-LINEAR VHF MODELS

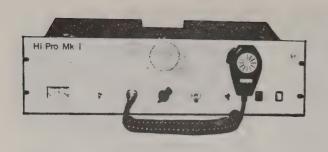
- · Covers entire Amateur Band w/o Tuning
- · Built-in Receive Preamplifier
- · Automatic T-R Switching
- Exceeds FCC R&O 20777 Requirements of -60 dB
- · Variable T-R Delay for SSB/CW use
- · Preamp & Power Amp Independently Controllable
- · Preamp nom 10 dB gain, 2 dB Overall NF
- · Functionally Designed Package

MODEL 2M10-80P VHF 10-80P	FREQUENCY (MHz) 144-148 148-174(5 MHz)	POWER IN 10W 10W	OUT 80W 80W	CURRENT 12A 12A	H 7.0 7.0		L 20.3 cm 20.3 cm	1.0kg.	PRICE \$189.95 \$229.95	
1 3M10-70P	220-225	16W	70W	. 11A	7.0		20.3 cm		\$199.95	
2M30-160P	144-148	25W	160W	25A	7.0	14.9	32.5 cm			
VHF30-160P	128-174 (5 MHz)	30W	160W	25A	7.0	14.9	32.5 cm	1.6kg.	\$289.95	
1 3M30-140P	220-225	25W	140W	23A	7.0	14.9	32.5 cm	1.6kg.	1269 95	
2M25.150P	144.178	25W	150W	25A	7.0	14.9	32.5 cm	1.6kg.	\$299 95	

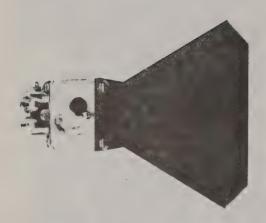
Models available for the 148-174 MHz bands, 5 MHz segments. Other models 50 thru 432 MHz bands plus higher power units out in near future.

PICTURE
NOT
AVAILABLE

LUNAR Electronics Model T-220-28 220MHz Transverter (1978). Receives 220MHz and converts it to 28 MHz 3db nominal Noise Figure. Converts a 1 to 5mw 28 MHz SSB/CW input to 220 MHz at 10 watts output. Modularized construction. Local oscillator output clean to below -50db. All harminious and spurious signals on transmit in excess of -60db. Selectable 28 to 220 or 222 MHz. External attenuators to decrease transmitter output to appropriate level are available as accessories. Other IF's are said to be available soon. Price unknown at this time.



MAGGIORE Electronic Laboratory Hi Pro Mk I Repeaters (1978). A state-of-the-art series of repeaters for 50 - 144 - 220 and 450 MHz operation. Broad range temperature and electrical stability, low current drain for 12 volt standby battery operation, maximum receiver sensitivity & selectivity and sideband rejection. Transmitter developes 15 watts minimum of clean RF and a faithful reproduction of the input signal. Includes a high quality dynamic mic. and manual. Size of repeater panel is 5½x19x13". Metering of discriminator and signal level. Receiver sensitivity S-N/r at .25uv -12db. Distortion .1% or better. Price class: 50MHz \$780; 144 + 220MHz \$700; 450MHz \$800. Matching cabinet available. Options available include Duplexers, Basic auto patch, .0005% high stability crystals. COR Identifier is available separately at \$80.



MICROWAVE ASSOCIATES Gunnplexer Transceiver "Front End" (1978). Applications include full duplex talking across town, controlling repeaters, sending and receiving television and data. Features of the Gunnplexer include: high sensitivity, integrated assembly, electronically tunable, high reliability, low operating voltage. Operate in the 10 to 10.5 GHz band. Model MA 87140-1 single unit(one 10GHz, 10mW Transceiver and Antenna) \$120. MA 87141-1 pair of units(two 10GHz 10mW Transceivers and Ant.s) \$200.

MICROWAVE ASSOCIATES Complete Gunnplexer Transceiver Package (1978). Includes 1 MA 87140-1 "Front End" described above plus a Model GR-1 Receiver Board Kit(\$70 separately) and a Model GS-1 AFC/Power Supply/Modulator Kit (\$54.95 separately) for a Package Price of \$209.95 (List \$244.85)



MICROWAVE MODULES Ltd. MMT432/28-S 432mHz Linear Transverter (1978). Puts a 28MHz Transceiver on 432Mhz with extra range(434-436mHz) for Satellite operation. 10 watts RMS output power. Simple freq. range selection using toggle switches. Highly stable regulator controlled crystal oscillator stages and 30db receiver gain. Better than 3.0db noise figure. Antenna changeover by low pass pin diode switch. 50mHz and 144mHz I.F.'s available. \$330.



MICROWAVE MODULES Ltd. MML432/100, 100 WATT 432Mhz Linear Amplifier (1978) 100 watts output on all modes, 100% duty cycle rated, RF Vox, 10db minimum gain, fully protected VSWR, overheating, reverse polarity. Price class \$450.



MICROWAVE MODULES Ltd. MML144/100, 100 Watt 2-Meter Linear Power Amplifier (1978) 80 watts minimum output, fully protected against poor load VSWR, overheating and excessive or reverse supply polarity. Equipped with RF Vox and manual override. Supplied with power lead and all connectors. Price unknown.

MIRAGE COMMUNICATIONS Bl08 VHF Power Amplifier (1978) Solid state VHF power amplifier with built-in receive preamplifier. 144-148mHz. Rate 5-15w.in, 80w. nominal out. Switchable for FM, CW and SSB(adjustable delay). 13.6VDC/10-12A. Preamp provides 10db gain, 2.5db noise figure. Optional control head for remote operation. Size 5-3/8x3x8". 3 lbs. \$169.95. RC-1 Remote Control Head w/18' cable \$24.95. NOTE: The preamp utilizes a J310 FET and may be operated with or without the power amp being turned on. Keying is provided by the internal RF sensing circuit, or the unit may be keyed from the external transmitter. For SSB operation, the relay droput delay is fully adjustable.



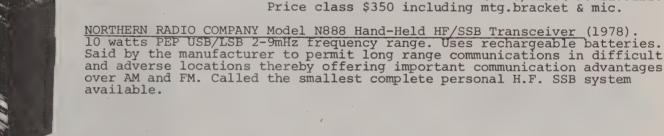
MIDLAND International 13-510A 2-Meter Mobile Transceiver (1978). The PLL synthesizer provides 1200 frequencies 143 to 149.00mHz, the full 2-meter band + MARS. Will operate with up to a 6mHz split between TX and RX frequencies. A mic. connector is prewired for a Touch-Tone encoding mic. Also has a 7-pin accessory connector for a Touch-Tone dial, tone-burst generator or discriminator meter. Compatible with popular CTCSS tone-coded squelch system accessories. 3 transmitter outputs: 1,10 & 25 watts.

Receiver sensitivity .3uv, dual conversion, selectivity -70db at 15kHz, uses dual gate MOSFET RF and mixer stages, lst IF crystal filter, 2nd IF ceramic filter, and helical resonators in the RF amplifier. Features include automatic protection for the output transistor, deep-finned heat sink, and electronic switching. Operates 13.8VDC Size 2-5/8x6-7/8x9-5/8". 6.6 lbs. Mobile mount bracket, base stand and PTT mic incl.

Midland International 13-513 "220" Mobile Transceiver (1978). (Looks the same as the 13-510A above). Advanced modular construction, digital readout. Programmed for 500 frequencies between 220 and 225mHz with a 5kHz shift up giving 500 more. 4 offsets are available for repeater use. The receiver has a multiple FET front end with monolithic crystal and ceramic filters. The transmitter switches for 2, 10, or 20 watt output. Has automatic SWR and polarity protection, internal DC filtering, electronic switching and a jack for tone burst and discriminator meter. Price class \$450.



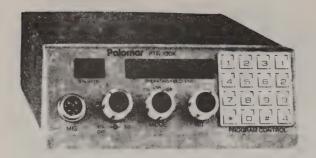
NDI, Inc. Model HC-1400 2-Meter Transceiver (1978) Digitally synthesized, 800-channel capability 144-148mHz, 5 or 10kHz channel spacing. Fast-acting single knob selector shifts LED digital frequency readout in 10-kHz steps with a 100-kHz speedup button. Transmit offsets are preprogrammed and switchable to +or- 600kHz. Simplex also available. Holds 3 TX-RX pairs in memory with instant recall. The receiver uses an FET front end with 3 coax resonators, a crystal lattice filter and multituned circuits in a dual I.F. FM power outputs of 5 or 25 watts on 13.8VDC. 7½x2-5/8x10½"D. 11.9lbs. Price class \$350 including mtg.bracket & mic.





PATHCOM Inc. PACE Communicator II 2-Meter FM Transceiver (1978). 800 channel 4-MHz 2-Meter synthesized FM mobile transceiver. By using 3 knobs(MHz, 100kHz, and 10kHz) and an in-out push-button for 5kHz, the receive frequency is fast dialed and is displayed on the 6-digit LED readout. A 5-position rotary switch gives simplex, +or- 600kHz, and +or- 1-MHz splits. The receiver is dual conversion using 16.9mHz and 455kHz I.F.s Sensitivity is .4uv for 20db quieting(.2uv for 12db SINAD). Image and spurious rejection is -65db at 12kHz. Internal 8 ohm speaker for 1.2 watts audio. Jack for external speaker provided. Power output is 1 watt or 25 watts adjustable for QRP, freq. deviation is +or-5KHz maximum. Operates 13.8VDC. 6½x3x10½"L. 6.6 lbs. Price class \$400.

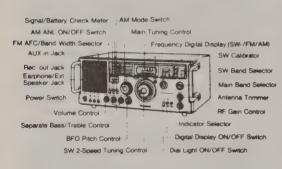
PATHCOM, Inc. PACE Communicator I 2-Meter Hand Held Transceiver (late 1978) 2-Meter FM, 6-Channels, 3 watts output.



PALOMAR PTR-130K Multi-Functional Transceiver (1978). A miniaturized mobile transceiver operating with 100Hz resolution from 100kHz to 30MHz in all modes (SSB,CW,FM and AM). Instant frequency selection at a finger's touch. Has a built-in RF compressor to increase effective transmitter output by 12db. Two cascaded Collins mechanical filters in the receiver provide excellent selectivity of 3db/60db. Power output is 5 watts on AM, 12 w. on other modes. 65x25x8".



PALOMAR Mini-1 VHF-FM Hand Held Transceiver (1978) About the heighth of a dollar bill. Transmitter output 1 watt, 18 channels available in the 144-148mHz band. The channels are obtained by using updown split, down-up split, or simplex, all with only 6 crystals. 152mmH x 67mmW x 46mm D. By using an auto-patch option, you can access the telephone repeater and communicate through the telephone system.



PANASONIC RF-4800 General Coverage Receiver (1978) FM/AM/8 SW - 10 Band Receiver with Digital SW Frequency Readout, AC/battery operation, 5 Digit LED Readout for SW2-8, Full coverage from 1.6 to 3lmHz on SW, covers SSB and CW, premix double superheterodyne, fast/slow 2 speed tuning, AFC switch on FM, narrow/wide selectivity switch for AM & SW, antenna trimmer, calibration control, FET RF circuit, mode switch for AM-CW/SSB, BFO pitch control, dial light switch, RF gain control, tuning/battery meter with meter function switch, separate bass/treble tone control, dial light switch, digital display on/off switch, separate power switch, rack type end handles. Includes antenna, speaker, earphone, aux. in and recording jacks, 12VDC in jack, AC line cord, headphone converter plug, FM antenna. Also includes ANL on SW and MW, 4"dynamic spkr. Operates on 8 D size batteries (included).



RACAL COMMUNICATIONS Inc. RA6700 Receiver (1978). Fully synthesized, tunable, solid-state receiver designed for all modes of reception from 15kHz to 30mHz. Single knob frequency control for rapid tuning with selection of a 100 or 10-Hz tuning rate, with the separate MHz control knob for rapid frequency range change. Rear panel contains all input and output connectors. Units can be added within the reciver for ISB and FSK signal reception along with AFC operation.

RACAL RA6772 Receiver (1978). (looks similar to the RA6700 receiver above). Frequency range of 15kHz to 30mHz with tuning increments in 10Hz steps. Synthesized LF/MF/HF and will accommodate 6 I.F. filters; 2 may be asymmetrical SSB filters with 39ther 3- or 6-kHz nominal bandwidths. Provisions are also available for additional filters if the standard 300Hz, 3kHz, and 8kHz filters are not adequate. During CW reception, the internal BFO provides +or- 3kHz range. The RA6774 can be controlled by a computer, or by either local or remote manual control, and can also the RA6780.



REGENCY Model ACT-R-106 Scanner (1978). Covers all 5 bands on 10 channels including 2 meter Ham and extended UHF frequencies. AC/DC operation for base or portable use. Price class \$119. Frequency selectable for the 10 crystals.



REGENCY "The Touch" Scanner (1978). Features include automatic continuous search, never buy crystals, priority channel, Lo, Hi & UHF bands, 16 channels, over 15,000 frequencies at your fingertips, special weather alert, includes 2-meters and 450 mHz. Scans the channels in 1.3 seconds. Frequency range: Low VHF 30-50mHz; High VHF 146-174mHz; UHF 440-512mHz. Price class (list) \$329.

REGENCY Micro-Com Hand Held Portable Series (1978). For VHF High Band only. Both one channel or 6 channel units come with 2.5 watts standard or an optional 4 watts of power. The receiver has .3uv sensitivity. $6x2\frac{1}{2}x2$ "D, 16 ounces. Price class including battery & crystals is \$400.



REGENCY Touch Kl00 Synthesized Scanner (1978) The Touch Kl00 requires no crystals...a simple touch entry of frequencies using the special pressure sensitive panel is all that is needed. 10 channels available for storing any of 15,757 possible frequencies. It can also search within a band for unknown frequencies by entering the upper and lower limits of the search spectrum on the program panel. Other features include: Delay: tapping "Delay" will keep the scanner on that frequency to hear response to a call, etc. Informative Digital Display: In addition to showing the frequency entered or received, the LED indicators also inform of power

the LED indicators also inform of power failures, programming errors, all channel lockouts, and status of the scan delay function. S1 & S2 Indicators: Verify that the frequency in the digital display is the lower or upper limit to a search. List \$269.







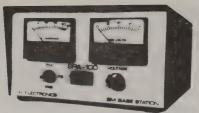
RF POWER LABS, Inc. Model V350 All Mode VHF Amplifier (1978). 144-148mHz, no tuning, 350 to 400 watts, fully solid state, AM/FM/SSB/CW/RTTY modes, continuous duty cycle (the Fl35 ll5volt AC or F235 230Volt AC fan kits should be used for continuous operation), 8 to 15 watts input for 300 to 400 watts output, built in ll5/230VAC power supply, power output selection of 10 watts(low) or 350 watts(high), metering lighted front panel select, built in thermal switch for optional fan control, cooling by convection for SSB and CW, optional fan recommended for continuous duty FM operation, -l3volts at 3 amps auxiliary output on rear panel, hinged amplifier and heatsink top for easy accessibility and service. 52 lbs., 17x8xl3". SO 239 UHF connectors. Price class \$900. Includes an internal coaxial T/R switch.

ADDITIONAL RF POWER LABS ALL-MODE VHF AMPLIFIERS Available in 1978. All have these features: No power supply needed, AM-FM-CW-SSB-RTTY, 60db harmonics, 60db spurious, heavy duty design, illuminated panel meter, internal T/R switch, fully protected, +13V/3A Accessory Socket on rear panel, U.S. manufactured. Model & prices of amplifiers and cooling fan kits are given below:

FCC Type Accepted Models also available, Parts 89,91,93.

MODEL	FREQUENCY	INPUT	OUTPUT	SIZE WxDxH	WEIGHT	FAN KIT Required	PRICE
V70	144-148MHz	10 15W	75-90W	216x330x178mm	11 7 kg (26 lbs)	NO	\$315.00
V71	144-148MHz	1-3W	75 90W	216x330x178mm	11.7 kg (26 lbs)	NO	\$349 00
V180	144-148MHz	8-15W	170-200W	216x330x178mm	13 5 kg (30 lbs)	CW&FM	\$539.00
'∨350	144-148MHz	10-20W	350 400W	432x330x178mm	20 2 kg (45 lbs)	YES	\$875.00
V130B	220-225MHz	10-15W	70-85W	216x330x178mm	11 7 kg (26 lbs)	NO	\$329.00
V135B	220-225MHz	25-35W	140-160W	216x330x178mm	11 7 kg (26 lbs)	CW & FM	\$469.00
F110	FAN KIT	r, 115VAC	,	135×135×50mm	1 kg (2.2 lbs)	-	\$ 33 00
F220	FAN KIT	7, 230VAC		135×135×50mm	1 kg (2.2 lbs)	-	\$ 33 00
RM-1	19 INCH RA	CK ADAP	TOR	483x3x178mm	1 kg (2.2 lbs)	_	\$ 25 00

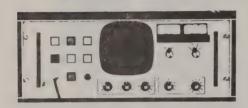
*Available after September 1, 1978





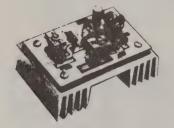
SEI SPA-100 and SPA-101 2-Meter Linear Amplifiers and Regulated Power Supplies (1978). Combination 75w 2m linear amplifiers and 14A power supplies. Use as a self-contained 110v base amp or separate 14A DC supply. Amplfier for 2m FM or SSB. All solid state, trip line construction. 70-80 watts output, 25w maximum drive FM or 20w PEP SSB. 100% duty cycle. VSWR protected. No tuning. Regulated power supply output adjustable 3 to 14VDC. SPA-100(5-15w input) \$300; SPA-101(1-5w input) \$330.

SEI SMA-100 and SMA-101 2-Meter Mobile Linear Amplifiers (1978). Solid state, strip line construction, for FM or SSB, 75-80 watts output. 25 watts maximum drive on FM, 20w drive PEP SSB. Operates on 13.6VDC, 100% duty cycle, VSWR protected. No tuning. LED indicator. 4x9"D. SMA-100 (5-15w input) \$150; SMA-101(1-5w input) \$180. Complete with mounting bracket for mobile operation.



SPECTRUM COMMUNICATIONS SCR1000/SCAP Repeater (1978) Now a fully self-contained 30 watt repeater with a built-in autopatch and land line control. Built-in AC supply, CW IDer, Rcvr. Preselector full metering and lighted status indicators/control push buttons, crystals, local mic, etc. Also includes jacks for emergency power, remote control. Features include normal patch, or secure "reverse" patch accessed by control op.; 3 digit anti-falsing access, single digit disconnect; 3 digit on-of control of repeater

trol, either over the air or over the land line; 4 sec. time limit on access; built-in adjustable time-out function, patch shuts down in 30-90 sec. if no carrier is received; user can mute phone line audio simply by keying his mic button; wide range audio AGC on input and output. Price class \$1700 (\$2195 with WP641 Duplexer). NOTE: Picture shows unit in optional cabinet priced currently at \$130.



SST Electronics Model SST A-1 2-Meter Amplifier Kit (1978) I watt input gives 15 watt output across the entire 2-meter band without re-tuning. Compatible with all 1-3 watt 2-meter transceivers. Short and open protected. Not damaged by high SWR. Kit includes etched and drilled G-10 epoxy solder plated board, heat sink and mounting hardware, all components including pre-wound coils, top quality TRW RF power transistor, complete assembly instruction with details on a carrier operated T/R switch. Kit \$29.95; wired and tested \$49.95. Size 2x3".



STANDARD Communications RPT-1B VHF Repeater (1978) Operates on a single pair of channels in the 143-149mHz range, this 10 watt 2-Meter repeater has a separate transmitter and receiver for the re-transmission of signals and a COR/TIMER for control of the switching/timing/monitoring functions. An optional private channel unit may be installed as an accessory. It may be operated in either a repeat or duplex mode. Price class \$850.



STANDARD Communications Model C-118 Compact 2-Meter Hand Held FM Transceiver (1978). 1+ watt output, only 2-5/8x64x1-3/4"D (about the size of a dollar bill). Transmit +or- 600kHz, or receive and transmit on the simplex freq. with just one crystal. This provides a total of 18 transmit channel capability with only 6 crystals. Has a built-in condenser mic, LED status lights for "channel busy" and transmit. Also includes a BNC connector with rubber duck ant, provision for external DC power, and earphone. Frequency range is 144-148mHz and comes equippped with one crystal for 146.94 simplex and .34/.94mHz for repeater use. Price class \$260.

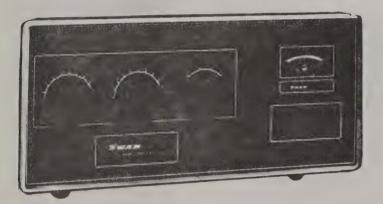


STANDARD Communications Model C-6500 General Coverage Communications Receiver (1978). Covers 500 kHz to 30mHz, good sensitivity plus rock-like stability is claimed due to a synthesized drift cancelling circuit design. Easy to tune USB,LSB, CW and AM operation. Two separate detectors, product and diode, dial accuracy of better than 5kHz direct readout, wide and narrow filters. Operates from AC mains or internal flashlight cells or automobile battery. Automatic switchover to battery operation occurs when AC power line fails. Has builtin antenna, provision for external antenna plus muting jack. Price class \$350.



SWAN Electronics Model 100 MX SSB Transceiver (1978) 100 watt minimum PEP SSB mobile transceiver is completely solid state featuring a extremely stable PTO with 1-kHz readout resolution, built in noise blanker, Vox, semi-break-in CW with sidetone, RIT, 25kHz calibrator, and preselector for transmit and receive. Modes of operation are USB, LSB, and CW. Bands are 80,40,20,15, and 10 meters(28.5-29.0mHz). Extended coverage in 500-kHz segments of the 10 meter band is possible without retuning by replacing the standard crystal with an optional crystal. Receiver sensitivity is .35uv at 50 ohms for 10db S+N/N ratio all bands. Audi output is 4 watts into a 4 ohm load.

Audio bandpass response is 300 to 3000 Hz. Provisions for an external speaker or headphones are on the rear panel, and a gimbal-type mobile mount is included. Price class \$850. Matching power supply PSU-5 \$180; Matching Ant.Tuner ST-3 \$170. 100 MX size is 3.75Hxll.75Dx9.75"W. Weight 13 lbs.



SWAN Electronics Model 1500Z Linear RF Amplifier (1978). Rated at 1500 watts PEP input, nominal output 750 watts into the antenna. Self-contained 110/220 VAC power supply provides 2200 volts DC to two 572B tubes. Has tuned input, is an ideal companion for the Swan 100MX Transceiver. Metering is selectable for relative output, Ip, and Ep, and instant operation with the "Operate" and "Bypass" switch. Price class \$750.



SWAN Electronics Model 1200Z Linear RF Amplifier (1978) Rated at 1000 watts PEP on SSB and 750 watts DC input on CW. Completely self-contained amplifier and power supply with most of the features of the 1500Z above. This amplifier is said to be lightweight and portable. Price class is \$550.



TELCO Products Corp. Telco 125 2-Meter Class C Amplifier (1978) Operates from 12 volts DC on FM and CW as a Class C amplifier. 1 watt drive gives 25 watts output. Has an antenna changeover relay and a tuning/filtering output network. Will withstand high SWR mismatch and is protected for inccorrect polarity. Insertion loss on receive is less than 1db. Small 4x6½x1½". Price class \$85.



TEMPO S1 and S1T SYNCOM 2-Meter Hand Held Transceivers (1978). Fully synthesized 800-channel 2-meter FM. Top-panel thunbwheels select receive freq. to 10kHz. A +5kHz slide switch offsets to 5kHz if desired. Choice of transmitting simplex, +or-600kHz. Separate speaker and microphone built in. RF output 1.5+ watts nominal. Dual conversion receiver. Sensitivity .5uv for 20db quieting, spurious and harmonic attenuation is 60db below carrier. 2½ x6½x1-5/8"D, 16 oz. w/batteries. S1 price class of \$350 includes battery pack, charger, telescoping ant. S1T is the S1 with a factory-installed 12-button Touchtone pad installed (shown at left)..\$400. Accessories include TS-CC holster w/belt loop \$16, S-30 matching 30-w. amplifier \$89, TS-MC cigarette-lighter-plug mobile charger \$6, TS-HA "Rubber Duckie" Ant.\$8.



TENHAM-153 2-Meter FM Transceiver (1978). 24-channel crystal-controlled(1 per channel) 10-watt 2-meter FM solid state transceiver. Controls include a simplex/repeater(+or-600kHz splits) switch, plus a handy priority channel switch right on the mic. for instant access. Operates 13.8VDC with a built-in regulator to compensate for DC voltage variations. A high/low power switch conserves power. Adding the optional VFO832B outboard VFO gives 144-148 mHz coverage, large LED digital readout, RIT plus tuning meter. The TENHAM-153 comes with 146.94 crystals installed. Price unknown. (Mfg. Fujitsu Ten Corp. of America) NOTE: VFO832B is shown on top of TENHAM-153)



TEN-TEC Model 546 OMNI-D Transceiver (1978) Solid state, 8-bands 160,80,40, 20,15, and 10 meters now(crystals included for all present Amateur bands, 1.8-30mHz, and has convetible 10mHz and "AUX" band positions for future use. Broadband design permits band change without tune-ups. .43" LED readouts with 5 digits red and the 6th green to show 100Hz increments. Features include built-in Vox, PTT, squelch, 4-position CW/SSB filter, 8-pole crystal filter, 2-speed breakin, 2-range offset tuning +or-5kHz, receiver sensitivy from .3uv on 10m to 2uv on 160m, WWV reception on 10 mhz band switch position. Power in-

put of 200 watts, 100% duty cycle, built-in phone patch jacks, timed crystal calibrator, zero beat switch, SWR bridge, adjustable sidetone. Operates on 12VDC for mobile use(external 117VAC supply requred for AC operation). Price class \$1070. Optional Accessories: Model 645 Keyer, 243 Remote VFO, 248 Noise Blanker, 252M AC Power Supply. TENTEC Model 545 OMNI-A Same as the Model 546 OMNI-D except it has an analog dial with I kHz dial markings. Price class of the Model 545 OMNI-A \$900.



TPL Communications Model 2002 Linear Amplifier (1978)
Uses microstrip circuitry and modular construction.
Three final transistors combine to produce 200-250w.
carrier FM or CW, 300w. PEP SSB or AM with a power input of 5-20w. carrier FM or CW, 20w. PEP Maximum SSB or AM. Operates on 13.8VDC. Frequency range 144 to 148 mHz(will operate with slight degradation at 142 and 150MHz). All harmonics attenuated 60db or more. A remote control plug allows control of On,OFF,SSB/AM, FM or CW from the dashboard. No tuning required broad band amplifier, includes adjacent MARS channels with slightly less output. Uses a 7 pole low pass filter.
Model 2002 \$480 (can be ordered for repeater operation 19" rack and panel mounted with cooling fan.



TPL Model 750L: FM Operation: 5 to 15w. in, 60 to 90w. out. SSB Operation: .5 to 5w. PEP in, 60 to 90w. PEP out. Price class \$400.

TPL Model 750CL: FM Operation: 20 to 40w. in, 60 to 80w. out. SSB Operation: 10 to 25w. PEP in, 60 to 90w. PEP out. Price class \$360.



WESTCOM Engineering RF Power Amplifiers (1978). Add-on units, no internal connections or adjustments required. Standard amplifier models operate FM. Linear models operate all modes: SSB,FM,AM,RTTY,CW. "Microstrip" design provides high stability and optimum performance over a wide bandwidth. Factory adjusted, no tuning required. Mobile mounting bracket included. RF sending T/R switch, adjustable dropout delay, remote keying capability, reverse voltage protected and fused, oversize heat sink, red LED indicators for monitoring DC and RF. See below:

MODEL NO.	INPUT POWER (watts)	MINIMUM OUTPUT W. (at max input)	MAXIMUM CURRENT 13.8 VDC	PRICE
FM Mode. 144-149 MHz				
2M 15x90	5-15	90	11	139.95
2M 25x125	10-25	125	18	169.95
All Mode - Linearized.				
144-149 MHz				
2M 15x90L	2-15	90	11	149.95
2M 25x125L	5-25	125	18	179.95
FM Mode. 220-225 MHz				
1.3M 15x70	5-15	70	10	available soon

*Linear; AM, CW, FM, SSB, RTTY. Linear models work well with low power transmitters of 2-3 watts to yield: 30 - 40 w, output, size: 4 1/8 x 5 1/2 x 2 5/8 $\,$

technical specifications and data subject to change without notice

MODEL NO.	INPUT POWER (watts)	MIN OUTPUT (at max input)	NOM CURRENT 13.8 VDC	PRICE
2M 10X40 2M 15X50 2M 15X50L' 2M 15X80 2M 15X80L'	4-10 5-15 2-15 5-15 2-15	40 50 50 50 80	5 6 6 11	\$ 77.95 \$ 89.95 \$ 99.95 \$129.95 \$139.95

*Linear: AM, CW, FM, SSB, RTTY. Linear models work well with low power transmitters of 2-3 watts to yield 20-30 w output. size. 4% x 5% x 2%

technical specifications and data subject to change without notice



WESTCOM Engineering Combination Receiver Preamplifiers and RF Power Amplifiers (1978). A low noise receiver preamplifier and an output amplifier in the same package. No modification required. The low noise U310 J-FET yields 12db gain, 2db noise figure. The receive preamp. may be used independently. Standard amplifiers operate FM, linear amplifiers operate all modes: SSB,FM,AM,RTTY, CW. "Microstrip" design for high stability and optimum performance over a wide bandwidth. Factory adjusted, no tuning required. Withstands 20:1 VSWR. Includes mobile mtg. bracket, RF sensing T/R switch, adjustable dropout delay in SSB/CW mode, remote keying capability, reverse voltage protected, oversize heat sink, red LED indicators for monitoring DC and RF, compact 4½x5½x2-5/8".

MODEL NO. (two meter)	INPUT POWER (watts)	MINIMUM OUTPUT W. (at max input)	MAXIMUM CURRENT 13.8 VDC	PRICE
FM Mode		· · · · · · · · · · · · · · · · · · ·		\$119.95
2m 15x70	各技	147.15		and the second second
2m 15x90	5-15	90	11	\$134.95
2m 25x125	10-25	125	18	\$164.95
All Mode Linearized				
2m 15x70L	2:15	70		\$129.95
2m 15×90L	2:15	90	11	\$149.95
2m 25x125L	5-25	125	18	\$179.9
All Mode Linearized				
with pre-amp	2.05		.11	\$179.9
2m 15x90BL	2.15	90	18	\$209.9
2m 25x125BL	5.25	125	10	#2U3 3:



WILSON Electronics Corp. SWITCHABLE Mark II and Mark IV Hand Held Transceivers (1978). New features include switchable lw. or 2.5w. output for the Mark II, and switchable l.5w. and 4.5w. output for the Mark IV. In addition, a LED battery condition is now mounted on the top plate. Other features remaining the same as before are 144-148MHz range, 6 channel operation, individual trimmers on TX and RX xtals, 12kHz ceramic filter and 10.7 monolithic filter, .3 uv sensitivity for 20db quieting, 10.7mHz and 455kHz IF., rechargeable Nicad battery pack, BNC antenna connector with Rubber Duck one pair 52/52 Xtals included. 6x1-7/8x2\frac{1}{4}", 19 oz. w/batteries. Price class: Mark II \$230; Mark IV \$260.

ACCESSORIES: Touch Tone Pad(shown installed), mobile charger, desk charger, leather case, and speaker mikes.



YAESU Electronics Corp. FT-7 Mobile/Base HF Transceiver (1978). All solid state, features include coverage of 500kHz of the 80-15m amateur bands plus one 500kHz portion of 10 meters(28.5 to 29.0mHz). Sensitivity .5uv for 20db S/N ratio. Emission modes: LSB,USB,CW. Input power 20watts DC. Single knob tune-up. 100kHz calibrator built in, semi-breakin with sidetone, receiver offset tuning, operates on 13.8VDC. 9x3x12"D. Price class \$500 which includes a hand mike, 3 subminiature connectors, a fused power cable, a mobile mtg. bracket, etc.

YAESU FT-7B (1978). Higher powered version of the FT-7 shown and described above. 100 watts power input, improvements include an audio peak filter for super CW selectivity, a drive control, four lOmeter positions with full lOm coverage, 28.5 - 29.0 mHz crystal still supplied, others available as options), optional YC-7B plug-in remote digital readout, optional FP-12 speaker/power supply console. Price class of the FT-7B is \$675.



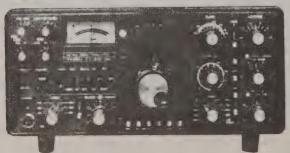
YAESU FT-101ZD HF Transceiver (1978). Digital and analog readout, digital display resoluttion to 100Hz. Frequency coverage 160-10M + WWV/JJY(receive only). Range from 1.8-29.9mHz in LSB,USB,CW modes. 180w. DC input power, carrier suppression better than 40db, receiver sensitivity .25uv for 10db S/N ratio, selectivity 2.4kHz at 6db down, 4kHz at 60db down, continuously variable between 300Hz and 2400Hz, 3 watts audio output power, adjustable Vox, built-in RF speech processor, adjustable Noise Blanker. Operates AC: 100/110/117/200.220/234 volts 50/60 Hz; 345mmx157mmx 326mm(WHD) 15kg. Price class \$800. Compatible with FT-901PM Accessories.



YAESU PT-22/RA Memorizer 2-Meter FM Transceiver (1978). Has 4 memory positions: 3 for simplex, 1 for repeater freq. Also when you press the UP button on the mike, it will cause a shift of 10kHz upwards, or down if you press the DOWN button. Holding the button will cause the unit to continue in either direction, 800 PLL synthesized channels in 5 kHz steps, built in programmable tone burst, Hi/Low 10w/lw. power selection, status lamps indicate "On Air" and "Channel Busy" Protected agains high VSWR and reverse polarity. Operates 13.8VDC. Has adjustable squelch control, an S-meter serving receive and transmit signal power. Price class \$400.



YAESU IT-202R "The Handie" Hand Held Transceiver (1973). Small 67x 49x17lmm, has full 6 channel capability(3 supplied, 3 optional). 2-Meter FM, battery operated, tough impact-resistant ABS case. complete with helical whip antenna, S/relative power meter, squelch and tone burst. Price class \$200.



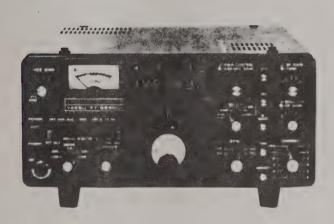
YAESU FT-901DM Transceiver (1978). FREQUENCY Range I.8 to 29.9mHz plus WWV. Modes:CW,SSB, AM,FM and FSK. Power input: 180 watts CW and SSB, 80 watts for other modes. Receiver sensitivity .25uv for S/N 10db. Has digital AND analog freq. readout. 9-band positions. Passband tuning continuous from 300Hz to 2.4kHz. Selectivity is 2.4kHz/SSB, 6kHz/AM, 12kHz/FM, 600Hz/CW. Features include semi-breakin delay, sidetone, Vox, 25kHz calibrator, noise blanker, RF speech processor, 20db RF attenuator, fast or slow AGC. Solid state except driver and pair of 6146B's in final. Has a built in speaker. Operates 117VAC. HWD: 64x 13½x12-3/4", 39.6 lbs. Price class \$1460.



YAESU CPU-2500R/K 2-Meter 25 Watt Transceiver(1978). Has keyboard mic for remote input, scanning control, aux. repeater split selection, and two-tone input for auto-patch or control link. Controlled by a central processing unit, 800 channels, channel memory, and automatic scanner search. Freq. coverage 144-148mHz. 4 memory channels, high SWR and reverse voltage polarity protection, bright LED six digit frequency display and a second LED for memory display. 25 watt output. Price class \$585.



YAESU FRG-7000 Receiver (1978). Frequency range .25-29.9mHz, AM, SSB, CW modes, stability less than 500Hz drift in 30 minutes after warmup. Sensitivity: SSB/CW better than .7uv for S/N 10db, AM better than 2uv for S/N 10db. Selectivity: SSB/CW 1.5kHz at -6db, 4kHz at -50db; AM 3kHz at -6db, 7kHz at -50db. Operates on 100/110/117/200/220/234VAC 50/60 Hz. 360mmx125mmx295mm (WHD). Weight 7 kg. Price class unknown.



YAESU FT-225RD Memorizer "Plus" 2-meter Transceiver (1978). All mode operation: SSB/CW/FM/AM-with repeater offset capability and a memory. Modular, computer type construction. Features: digital frequency display, complete 144-148mHz coverage in 4 lmHz bands, +or-600kHz or optional auxiliary repeater split, variable power output of 1 or 25 watts, squelch, VOX, PTT, semibreakin CW with sidetone, tone burst, discriminator center meter, noise blanker.
Provision for up to 11 fixed crystal controlled channels. A built-in power supply provides taps for operation on 100/110/117/ 200/220/234 VAC 50/60Hz. 280mmx125mmx315mm (WHD), weight 9 kg. Price class unknown. NOTE: A Similar Model FT-225R is available at slightly lower cost which offers the analog dial with lkHz accuracy instead.

YAESU FT-625RD 6-Meter Transceiver (1978). (Appearance similar to the FT-225RD above) Covers USB, LSB, AM, CW and FM modes on the 6-meter amateur band. 25 watts SSB PEP, 25 watts FM/CW, and 10 watts AM output. Has a built-in speech processor, 600Hz CW filter and memory storage unit options. Digital readout is accurate to .1kHz. Has VOX, PTT, semi-breakin CW with sidetone, and a clarifier for RX or Tx/Rx. For FM repeater use, the transceiver features standard +or-1 MHz repeater offset, programmable tone burst encoder, squelch, and a discriminator zero center meter. Other repeater splits may be obtained through optional crystalsor the optional memory unit. A built in power supply has taps for 100/110/117/200/220 and 234VAC 50/60Hz or DC voltages from 11.5 to 16VDC. 280x125x300mm (WHD), 9 kg weight. Price class unknown.

NOTE: A Model FT-625R 6-Meter Transceiver similar to the 625RD is available at lower NOTE: A Model FT-625R 6-Meter Transceiver similar to the 625RD is available at lower cost which has analog readout only with better than 1 kHz accuracy.



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Model No./Name
                               See...
                                                   Type
Alpha...Prefix for a series of amplifi-
ers by ETO
Alpha 77DX...ETO...Amplifier
Astro 102BX...Swan...Transceiver
Astro 150...Swan...Transceiver
Astro 151...Swan...Transceiver
Bearcat 300...Bearcat...Scan Monitor
"Command"...Series of receivers by
                  Panasonic
DR33C...McKay-Dymek...Receiver
F...Series of amplifiers by RF Power
                                                Lahs
FM-28...Clegg...Transceiver
FM-80...Comtronix...Transceiver
FM-88...Clegg...Transceiver
FM-88S...Clegg...Scanning Transceiver
FM-200...Comtronix...Transceiver
FT-7B...Yaesu...Transceiver
FT-101Z...Yaesu...Transceiver
FT-107...Yaesu...Transceiver
FT-127RA...Yaesu...Scanning Transcvr.
FT-227RB...Yaesu...Scanning Transcvr.
FT-627RA...Yaesu...Scanning Transcvr.
HF-200A...Dentron...Transceiver
HRO-600...National...Receiver
IC-255A...Icom...Transceiver
IC-551...Icom...Transceiver
KWM-380...Rockwell-Collins "Pro Mark"
               Transceiver
L-7...Drake...Amplifier
MA1000B...Magnus...Amplifier
Metron...Magnus...Amplifier
Omni-A Series B...Ten-Tec...Transceiver Omni-D Series B...Ten-Tec...Transceiver
PA 15-80BL...KLM...Amplifier
PCS-2000...Azden...Transceiver
Pro-Mark...Rockwell-Collins...KWM-380
                 Transceiver
R7...Drake...Receiver
R75...Hamtronics...Receiver Kit
R75A...Hamtronics...Receiver Kit
R75B...Hamtronics...Receiver Kit
R75C...Hamtronics...Receiver Kit
R-77...hamtronics...keceiver
R-77...Drake...Receiver
R-1000...Kenwood...Receiver
RF-2200...Panasonic "Command" Recvr.
RF-2900...Panasonic "Command" Recvr.
RF-4900...Panasonic "Command" Recvr.
RM1...RF Power Labs...Amplifier
RM2...RF Power Labs...Amplifier
S-2...Henry Radio...Hand Held Transcvr. SC-250...Spectrum Comm...Transceiver
SC-300...Spectrum Comm...Transceiver
SCR-4000...Spectrum Comm...Repeater
Series B...Ten-Tec...Omni Series of
                 Transceivers
"Service Search"...Bearcat...Scan Monitor SR-140...Scientific Radio...Transceiver
SR-145...Scientific Radio...Transmitter SR-240...Scientific Radio...Transceiver SYNCHAN...Scientific Radio communications
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equipment.

(1)

Model No./Name See... Type Tempo...See HENRY RADIO T450...Hamtronics...Exciter Kit TR-77...Drake...Transceiver TR-2400...Kenwood...Hand Held Transcyr. TS-180S...Kenwood...Transceiver TS-520SE...Kenwood...Transceiver Ultra I...Telco Products...Amplifier Ultra II...Telco Products...Amplifier Ultra III...Telco Products...Amplifier Ultra IV...Telco Products...Amplifier V...Prefix for a series of amplifiers by RF Power Labs V180...RF Power Labs...Amplifier V350...RF Power Labs...Amplifier XV4...Hamtronics...Transverter 2C025...VoCom...Amplifier 2C100...VoCom...Amplifier 2C200...VoCom...Amplifier 2C400...VoCom...Amplifier 2K-4A...Henry Radio...Amplifier 2M3-150P...Lunar...Amplifier 2M10-150P...Lunar...Amplifier 77...Drake...Console Station 77DX...Alpha...ETO...Amplifier 102BX...Swan-Astro...Transceiver 144-5A...ESP...Receiver Kit 144/28...Microwave Modules...Transverter 150...Swan-Astro...Transceiver 151...Swan-Astro...Transceiver 432...Sota...Transverter 1296...Sota...Transverter 1296...Sota...Amplifier

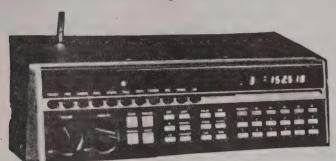




AZDEN PCS-2000 Microcomputer Controlled 2-meter FM Transceiver.
(1979). 144 to 147.995mHz, 5kHz steps + MARS-CAP and multiple offset built in. All Solid State CMOS PL Digital Synthesized. Microcomputer control of all scanning and frequency-control functions. Detachable control head, 6 channel programmable memory, memory scan, full band scan, mic controlled volume & squelch, 25w output, also 5w local low power, LED Digital S/RF meter, pushbutton freq. control from mic or the

front panel switch. Sensitivity .28uv for 20dB quieting. True FM, not phase modulation. Features include dynamic mic, built in speaker, mobile mtg. bracket, external remote spkr jack, cords, mic hanger. Introductory price \$369. Weight 6 lbs. ACCESSORIES: 15' Remote Cable \$29.95; MARKS-CAP KIT...TBA; PCS-6R A/C POWER SUPPLY \$49.95.

NOTE: Advance notice says a PCS-2800 10 Meter Version with the same features is coming.



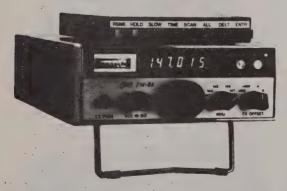
"BEARCAT 300 Service Search" scan monitor (1979). Over 2000 pre-programmed frequencies + 50 user-programmable channels including Ham abd 10 other services. 2,138 frequencies pre-programmed into the memory. Simple keyboard entry of some 50 other frequencies from the 7 VHF and UHF band covered by the radio. Lockout, scan delay, and automatic accessory activation available. Excellent display readability. 124x4x7" deep. Price unknown.



CLEGG 1979 FM-28 Improved 2M FM Transceiver (1979). Said by manufacturer to be improved reliability, tighter specifications, and lower in price than previous models. Features include 25 watts output, 144-418 MHz, fully synthesized, 5kHz steps with provision for non-standard offsets. Full 12 month warranty. 2-5/8x6-5/8x10-3/4"D. \$295.



CLEGG 1979 FM-28 Improved 2M FM Transceiver WITH SCAN(1979) Same specifications as the 1979 FM-28 model described avove but with scan capability: 144-147.995 MHz; scan entire band or memory; up to 800 channel memory; internal battery holds memory when power is turned off. Price with scanner \$395. NOTE: Scanner option can be added to any FM-28.



CLEGG FM-88S 2M FM Transceiver with Scanner, and the FM-88 same transmitter without scanner (scanner can be added later, if desired). Similar to the earlier FM-28 with added features like continuously adjustable power output from 1 to 25 watts, coverage of MARS & CAP frequencies, improved Touch Tone performance, and better frequency stability. Features include: 143 to 148.995MHz in 5kHz steps, digitally synthesized PLL system, panel selectable for 600kHz Simplex and 2 optional non-standard Repeater offsets, operates 13.8VDC. Receiver dual conversion with 16.9MHz and 455KHz IF, 25uv typical for 12dB SINAD, audio output 1.5 watts, 8 ohms, internal speaker. 2-5/8x6-5/8x10-3/4"D, 7-3/4 lbs.

Supplied with mic., mobile bracket, 2 power cables, desk stand. FM-88 Price \$345.

FM-88S Scanner assumes full control of the synthesizer making it unnecessary to use the frequency controls on the transceiver once the scanner is programmed. An internal battery hold the scanner memory when the power is turned off. 144-147.995, 5kHz spacing, 800 channels. Scan time approx. .5 seconds per channel. Can be programmed in seconds from front panel controls: FM-88S(with scanner) price \$439.



COMTRONIX FM-80 10-meter FM Transceiver (1979). 80 channels 28.91 to 29.7mHz. 10watts output, PLL freq. synthesized so no crystals, NBFM, excellent receiver is claimed, operates 13.8VDC, LED digital readout, MOSFET front-ends and IF filters, switchable 10kHz steps, broad band, needs no tuning, Small 2.3"x6.5"x 8.75". Price \$269.



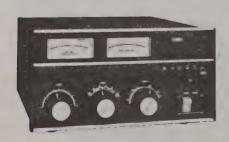
COMTRONIX FM-200 6-Meter FM Transceiver (1979). 200 channels 52-53.99mHz, broad band so no tuning needed, frequency synthesized, channelized in switchable 10kHz steps, 10 watts power output, effective receiver with MOSFET front end and I-F filter. Built-in repeater offset with xtal supplied for 1MHz offset. Sickets provided for 200kHz, 600kHz or other offset, all 3 selectable by bottom slide switch. Operates on 12VDC. Price class \$289.



DENTRON HF-200A 80 thru 10 Meter Transceiver (1979) Solid state, 5 bands 3.450 MHz thru 29.000mHz, USB, LSB, CW, RTTY, SSTV. Stability drift less than 100Hz after warmup, sensitivity .25uv for 10dB S/N Selectivity 2.4kHz at -6dB and 4.4kHz at -60dB down, IF frequency 9mHz, audio output 1 watt into an 8 ohm(external) load. Power input SSB 200w PEP, CW 200 watts, RTTY and SSTV 100 watts, 50 ohm load impedance, dynamic mike. 4x10x15"D, 11 lbs. Requires external 13.6VDC. Price class \$699.50. ACCESSORIES: HF-ACS power supply with spkr \$129.50; HF-RVO remote VFO \$159.50; HF-NB noise blanker plug-in board \$29.50; HF-VOX plug-in Vox board accessory \$29.50.

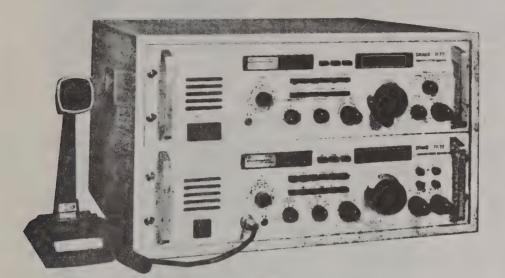


DRAKE R7 Synthesized General Coverage Receiver (1979) Full 0-30 MHz coverage AM, SSB, RTTY, and CW. Transceives with Drake TR7. 100% solid state broadband design, both digital and analog readout, tunable IF notch filter, switch selected optional selectivity filters, built in speaker, built in 25kHz calibrator, has built in 100, 120, 200, 240VAC, or 13.8 VDC power supply. Special front end circuit with high level mixer and 48mHz 1st IF, low distortion. Price unknown.



DRAKE L-7 Model 1528 2KW 160-10 Meter Linear Amplifier (1979). Full rated input, continuous duty cycle, all modes: 2KW PEP, 1KW CW,RTTY, SSTV operation. 160-10 meters amateur band plus MARS and future band capability. Uses pair of Eimac 3-500Z triodes, drive 100 watts PEP on SSB, 75 watts CW,AM,RTTY and SSTV. 50 ohm input impedance. Accurate built-in RF wattmeter calibrated 300/3000 watt scales. Temperature controlled 2 speed fan, adjustable AGC feedback circuit, by-pass switching, separate power supply included operate from 120/240 50/60Hz line voltage. (10 meter coverage on export models only). 13.69x6.7x14.25"D amplifier, 27 lbs (power supply 42.5 lbs. Price class \$1099.

THE FOLLOWING DRAKE EQUIPMENT IS COMMERCIAL IN NATURE, not intended for Amateur Radio use but may be used as such in some cases.



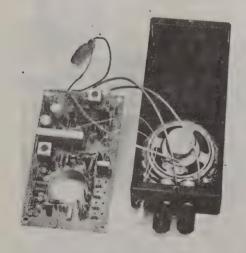
DRAKE 77 Console Station 10kHz thru 30mHz continuous tune Rcv.1.8MHz thru 30MHz continuous tuning transmit/receive; simultaneous dual receive on 2 separate frequencies. Unique shaft encoder system features better than 10Hz tuning resolution and continuously variable tuning rate for high stability and smooth VFO-type tuning. Two rack mount units in a cabinet.



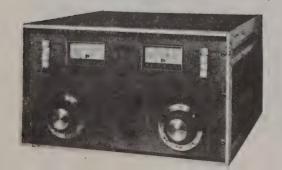
DRAKE R-77 Receiver 10 kHz thru 30 mHz continuous tuning receive. Advanced operational and performance features. Unique shaft encoder system features better than 10 Hz tuning resolution and continuously variable tuning rate for high stability and smooth VFO-type tuning. Rack mounting.



DRAKE TR-77 Transceiver 10kHz thru 30mHz continuous tuning receive. 1.8mHz thru 30 mHz continuous tuning transceive. Unique shaft encoder system features better than 10 Hz tuning resolution and continuously variable tuning rate for high stability and smooth VFO-type tuning. Rack mounting.



ESP (Electronic Signal Products) VHF 144-5A 2-Meter FM Receiver Kit (1979) 5-channel crystal controlled receiver kit with respectable sensitivity and selectivity with a six pole crystal filter in the IF section if desired at extra cost. A single Plessey 1003 chip provides the IF amplifier, squelch circuit, quadrature detector and audio amplifier stage. Shown in completed form with an optional case, controls and speaker. The receiver board contains a voltage-regulated circuit permiting operating voltages from 10.5-20 VDC, or 9V if the voltage regulator is bypassed. Board size 2-3/8 x4", approximate weight with all components installed is 2 oz. Prices: \$130 with the 6-pole crystal IF filter, \$70 without the filter.



ETO Alpha 77DX "Ultimate Linear" High Frequency Power Amplifier (1979) Tube: Eimac 8877 for 1500 watts of plate dissipation. Transformer: 4.4KVA Hypersil, removable, plug-in; oil filled 25mfd filter capacitor; QSK CW: Full Break-in, (2) vacuum relays; Vacuum tuning capacitor; ducted air with large quiet blower cooling. 24 months warranty in amateur service. Price class \$3995.



HAMTRONICS R75 VHF FM Receiver Kits (1979) New generation of kits claimed to have more sensitivity, better selectivity, low cross mod., easy to align, smaller, use a variety of crystal filters. 4 models: R75A: VHF kit for monitor or weather satellite service. Uses wide L-C filter. -60db at ± 30kHz \$69.95. R75B VHF Kit for normal NBFM service. Equivalent to most transceivers. -60dB at ± 25kHz \$74.95. R75C VHF Kit for repeater service or high RF density area. -60dB at ± 14kHz. -80dB ± 22kHz, -100dB ± 30kHz \$84.95. R75D VHF Kit for split channel operation or repeater in high density area. Uses 8-pole crystal filter. -60dB at ± 9kHz -100dB at ± 15kHz. \$99.95. Specify band: 10M, 6M, 2M, or 220MHz. May also be used for adjacent commercial bands. Use 2M version for 137mHz WX satellites. Al3-45A 6-Channel Adapter for receivers \$13.95. Receiver 4x4½" consisting of two PC boards for flexibility.



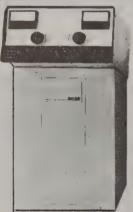
HAMTRONICS T450 UHF FM Exciter Kit (1979) Rated 1 watt for continuous duty so ideal for repeater and control link service. Features include low impedance dynamic mike and receiver audio inputs; clear modulation, low spurious outputs, built in test points for ease of alignment. Uses both individual coil shields and compartment shielding. Double tuned circuits, decoupling uses ferrite beads, and resonant bypasses for stability. Designed on a 3x5½" PC board. T-450 1-chan 450mHz, lW Kit \$49.95.



HAMTRONICS XV4 UHF Transmitting Converter (1979) Converts 28-30 MHz to 435-437 MHz or 432-434 MHz. Requires 1 mW to 1/2 W of drive to give up to 1½W on CW or FM. Has an oscillator ouput to be used with a receiving converter if you wish to transceive. It also has 2 oscillators, so it is easy to change requency ranges without retuning. 1W PEP output on SSB. Attenuator supplied for 1 to 500mW input, use external attenuator for higher levels. Price \$99.95 for the XV4 Kit. Extra crystal for 432-434 MHz range \$5.95.



HENRY RADIO Tempo S-2 Synthesized 220MHz Hand Held Transceiver (1979) 1000 synthesized channels 220 to 225 MHz; channel spacing 5kHz transmit Simplex or -1.6MHz; 1.5 watts output, sensitivity better than .5 uv. Operates 9.6VDC, 8 pieces nicad battery included; antenna impedance 50 ohms. 40mmx62mmx165mm in size (1.6x2.5x6.5"). Supplied with telescoping whip antenna, nicad battery pack, charger. Price \$349, with touch tone pad as shown, \$399.



HENRY RADIO 2K-4A LINEAR Amplifier (1979) Full legal power amplifier built with heavy duty components. Operates on all amateur bands 80 thru 15 meters; two rugged Emica 3-500Z grounded grid triodes; Pi-L plate circuit with silver plated tank coil; resonant cathode-pi input circuit; built in SWR bridge & relative RF output meter. Price class \$1195.



ICOM IC-255A 2M FM Transceiver (1979) 25 watt power output, reducable to 1 watt to save power; 5 channel memory w/memory scan, adjustable scanning speed and auto stop. Scan function can be programmed to scan all 5 or only 2 channels, stopping on any signal. Covers full band plus overlaps (143.8 to 148.2MHz. Has dula built in VFOs for smooth easy tuning in 5 or 15kHz steps. Has standard ±600kHz splits but can be programmed to provide any selected split between 143.8 and 148.2MHz. Receiver utilizes helical cavities for antenna and RF circuits. Junction FET's in RF and First Mixer for low noise, excellent sensitivity, low intermod distortion. High quality monolithic crystal and ceramic filters for excellent selectivity. Price class \$395.



ICOM IC-551 6 Meter Transceiver (1979) Microcomputer controlled 50-54mHz SSB-AM-CW fixed station transceiver uses a built in microprocessor for frequency control and scanning. Has digital readout in green phosphorescent digits and a no dealy dual vfo. 3 channel memory w/xcan stop all modes. Band scan(any portion) all modes. Built in CW monitor. Built in speech compressor. Built in AC/DC supply. Sensitivity .5uv for 10dB S-N/N FM. .6uv for 20db quieting. FM option available. PRICE CLASS \$560. Variable power output from 1 to 10 watts.



KENWOOD R-1000 Communications Receiver (1979) Continuous frequency coverage from 200kHz to 30Mhz in 30 bands each ImHz wide. 5 Digit freq. display and illuminated analog dial. Quartz digital clock and ON/OFF timer. Multi-modes: AM, SSB(USB & LSB) and CW. 3 IF filters: 2.7kHz for SSB and CW, 6.0kHz for AM narrow and 12kHz for AM wide; noise blanker, built in spkr, 3 antenna terminals, RF step attenuator, tone control. SSB sensitivity .5uv from 20 to 30mHz. More than 70 dB IF rejection. PLL circuitry. Single knob tuning. \$495.



KENWOOD TR-2400 2 Meter Hand Held Synthesized Transceiver (1979) 144-147.995 MHz synthesized; 10 memories. Automatic memory scan. Keyboard selection, 5kHz channels. Up/Down man. scan from 143.9 to 148.495 MHz, 5kHz steps. ±600 kHz offsets. Also non-standard splits. Built-in Touch Tone generator using 16 button keyboard. 1.5W power output. Supplied w/nicad pack, charger, rubberized antenna. Large illuminated LCD digital freq. readout. Shows receive and transmit frequencies and memory channels, and indicates "On Air", memory recall, battery status, and lamp switch on. Includes A/C charger. Price class \$395.



KENWOOD TS-180S/DFC HF Transceiver (1979) 160 through 10M(±50kHz above, below bands as well). DFC(Digital Frequency Control) Four memories usable in transmit and/or receive modes) and manual scan. All solid state including final; no dipping or loading, just dial up, peak the drive, operate. 200W PEP/160W DC input, 160-15M, 150W PEP/140W DC input, 10 meters. Digital freq. readout. SSB,CW,FSK. Dual RIT, single conversion, RF AGC, speech processor, 13.8VDC operation. Price \$1149.95



KENWOOD TS-520SE 160-10 Meter Transceiver (1979)
A new economical version of the TS-520S. 160-10 meters SSB/CW transceiver, 200 watts PEP input on SSB and 160 watts DC on CW. Changes made to produce the "SE" model include: Replaced the heater switch with a CW Wide/Narrow bandwidth switch for use with the optional CW-520 500Hz CW filter; removed DC converter terminals so it now operates solely base station 120VAC; removed the transverter terminals so it is now strictly a 160-10meter SSB/CW transceiver. Features retained include: effective noise blanker, 3-position amplified AGC circuit; RIT control, 8-pole crystal filter; built in 25kHz calibrator, semibreak in CW with sidetone; built in speaker, speech processor. Receiver sensitivity .25uv for 10dB(S+N/N) Selectivity SSBL 2.4kHz; CW 0.5 kHz (w/optional CW filter). Audio output 4-16 ohms. 13½x6x13½"D. \$629.95



KIM PA 15-80BL 2-Meter Linear Amplifier (1979) Frequency coverage 143 to 149 MHz; Class of servie "AB" linear; RF input 5-15 watts (maximum); RF output (minimum) 80 watts with 10 watts drive. Power required: 13.5V DC (usable from 11 to 14.5v DC) at 10A; input impedance 50 ohms; Input VSWR 1.4 from 144 to 148 MHz; intermittent duty cycle commercial and amateur service0; RF connectors: SO-239 (UHF female); 15 A fuse protection; 7x2.38x7.5". Weight 5 lbs. Has automatic RF-sensing to switch the amplifier in and out of antenna circuit; usable for CW, SSB, AM or FM in the 2-meter band. Price class \$190.



MAGNUS Metron Mal000B Mobile Amplifier (1979) All solid state, not tuning adjustment over 160, 80, 40, 20 and 15 meters. Use 12V car battery, base station with optional 13.8vdc power supply; fully remot controlled; suitable for any 100w transceiver; power output 600w PEP typical; harnonics -50dB all amateur bands; drive level 60w PEP 50 ohms. 8 power transistors of latest tripline RF linear devices; rated for operation at infinite VSWR; heatsink convector-cooled and Thermostatically controlled. 10x17.5x4.5", 17.5 lbs. Price class unknown.



LUNAR linearized AMPS (with built-in receive pre-amps); Characteristics: Nominal 10dB gain; cover entire Amateur Band w/o tuning; built-in receiver preamp; automatic variable delay PR switching; preamp and power amp independently controllable.

LUNAR 2M10-150P: 10 watts in, 150 watts output; linearized amp for SSB use; preamp 10dB gain, 2dB noise figure. (1979) Price unknown.

LUNAR 2M3-150P; 3 watts in, 150 watts output; linearized amp for SSB use; preamp 10dB gain; 2dB noise figure (1979) Price unknown



McKAY DYMEK DR33C All-Wave Receiver (1979). Frequency coverage 50kHz to 29.7mHz, AM, USB, LSB, CW, sensitivity .25uv 400kHz-20mHz range, image rejection 70db, bandwidth AM kHz -6dB, 28kHz at -60dB. Audio output 2watts at 4 ohms; audio notch filter: 5kHz at greater than 25 dB. Operates from 110/220 VAC, 50-60 cycle. Features include selective Collins Mechanical Filters, noise limiter, Quartz Crystal Phae Lock control for 100Hz drift free tuning. 17½x5x15", 16 lbs, \$1500.



MICROWAVE MODULE 144 MHz Linear Transverter (1979) Use your 28MHz transceiver for 2-Meter Sideband output. 10 watts RMS output power; 30dB receiver gain; better than 2.5dB noise figure. Antenna changeover achieved by low loss pin diode switch. Simple frequency range selection using toggle switches. Highly stable regulator controlled crystal oscillator stages. Price class \$259.95



NATIONAL RADIO HRO-600 Communications Receiver (1979 updated Version): High performance, high stability professional receiver. From 0 to 50°C will drift less than 1 part in one million. Uses plug-in modules and accessories. Covers 16kHz to 30MHz, built-in tunable preselector for excellent selectivity. AM,CW,SSB,FSK, and FAX modes. 5½x17x15½. 40 lbs. (See 1970 original HRO-600 model in Volume I for more description)



PANASONIC "Command" Series Recvr RF-2200 8 Band AM/FM/SW fregs from 3.9 to 28MHz. Double superheterodyne, precise calibrated tuning to 10kHz. Double check Xtal marker at 500kHz and 125kHz. RF gain control, BFQ switch for SSB & SW, ext. jacks for AC, ant, and spkr. Price \$179.



PANASONIC "Command" Series Rcvr. RF-2900 Digital AM/FM/SW (1979). Has 5 digit LED display, 3.2 to 30 MHz, reads all bands. Double superhet-rodyne. FM AFC & wide/narrow bandwidth control, fast/slow tuning, built in AM ant, telescoping whip for AM/SW. BFO pitch control for SSB/CW. Price class \$279.

RF-4900



PANASONIC "Command" Series Receiver Digital (1979) Full coverage From 1.6 to 31 MHz, All digital. AM/FM SW readout on all bands. 5 digit fluorescent readout. Permix double superheterodyne, fast/slow tuning, AFC on FM, Narrow/wide selectivity switch for AM/SW, BFO pitch control, Calibration control, ANL switch for AM, FET RF circuit, RF gain control. Price class \$499. 8 Shortwave bands, input tuned RF with 3-ganged variable tuning capacitor, laddertype ceramic filters for selectitivy. RF-4900

RF POWER LABS, INC.

MODEL: V350

- ☆ Built-in 115/230 VAC Supply AM-FM-CW-SSB-RTTY
- ☆ 60dB Harmonics
- ☆ Heavy Duty Design





MODEL: V180

- ☆ Illuminated Panel Meter Automatic T/R Switching
- ☆ VSWR Protected ☆ + 13V/3A Accessory Socket

MODEL	FREQUENCY	INPUT	ООТРОТ	SIZE WxDxH	WEIGHT	FAN KIT REQUIRED	PRICE
**V76 **V360 V70 V71 V180 V350 V130B V135B	50-52MHz	8-15W	100-120W	216x330x178mm	11.7 kg (26 ibs)	No	\$339.00
	50-52MHz	5-10W	400-450W	432x330x178mm	23.4 kg (52 ibs)	Yes	\$895.00
	144-148MHz	10-15W	75-90W	216x330x178mm	11.7 kg (26 ibs)	No	\$315.00
	144-148MHz	1-3W	75-90W	216x330x178mm	11.7 kg (26 ibs)	No	\$349.00
	144-148MHz	5-15W	170-200W	216x330x178mm	13.5 kg (30 ibs)	CW&FM	\$539.00
	144-148MHz	10-20W	350-400W	432x330x178mm	23.4 kg (52 ibs)	Yes	\$895.00
	220-225MHz	10-15W	70-85W	216x330x178mm	11.7 kg (26 ibs)	No	\$329.00
	220-225MHz	25-35W	140-160W	216x330x178mm	11.7 kg (26 ibs)	CW&FM	\$469.00
F110	Fan Kit, 115VAC		135x135x50mm	1 kg (2.2 lbs)	-	\$ 33.00	
F220	Fan Kit, 230VAC		135x135x50mm	1 kg (2.2 lbs)		\$ 33.00	
*F135	Fan Kit, 115VAC		381x140x89mm	3.2 kg (7 lbs)		\$ 59.00	
*F235	Fan Kit, 230VAC		381x140x89mm	3.2 kg (7 lbs)		\$ 59.00	
RM-1	19 Inch Rack Adaptor		483x3x178mm	1 kg (2.2 lbs)		\$ 25.00	
*RM-2	19 Inch Rack Adaptor		197x32x28mm	.5 kg (1.1 lbs)		\$ 12.00	

*Used with the V360 & V350 Amplifiers / **For Export Only / Other Frequencies Available on Request

Scientific Radio Systems Inc.

The New SYNCHAN Family of Synthesized / Channelized **HF SSB Communications Equipment**

- Synthesizer to generate up to 10 channels (20 frequencies)
- 1.6-30 MHz in 100 hertz increments
- M LSB. USB, AME, FSK,
- 3pp 10-8 standard, 1pp 10-8 and 1pp 10-6 optional stability

Transceivers

SR-140 SYNCHAN 1 KW **HF SSB TRANSCEIVER**

SR-240 SYNCHAN 150 W HF SSB TRANSCEIVER









SR-145 SYNCHAN **10 KW SSB TRANSMITTER**

Operating frequencies are programmed to the front panel switch by entering the desired frequency into a solid state memory using the internal keyboard and display. The channel frequencies can be changed in the field by entering the new frequencies into the memory from the keyboard. Operation on all frequencies is inherent within the equipment. Changing frequencies does not require any crystals, other components, or test equipment.



SOTA Linear Transverter for 1296 MHz (1979) Covers 1296-1298 MHz with 28-30MHz input. Output power 24W minimum. Receive NF under 3 dB, image rejection 20 dB or better. 144 MHz input models soon available. Price unknown at this writing.

SOTA 1296 Power Amplifier (1979) 50W output, compatible with transverter, built-in AC supply. Price unknown.

SOTA 432 Linear Transverter for 432 MHz (1979) TX power 15 Watts. RX NF 2.5 dB. Dual Freq. 432/435. Price unknown.

Other SOTA Transverters and Power Amplifiers available as listed below:

TRANSVERTER	

SOTA 23 cm 2W out 28 MHz in SOTA 23 cm 2W out 144MHz in SOTA 70 cm 15W out 28 MHz in POWER AMPLIFIERS

\$499.95 SOTA 23 cm 50W output AC Supply \$499.95 SOTA 70 cm 50W output AC Supply \$699.95 \$499.95



ROCKWELL-COLLINS Pro-Mark KWM-380 Transceiver (1979) .5 to 30 MHz; Modes SSB, CW, AM(receive only); Power output: 50 ohms impedance: 100W PEP, and CW within 160-10 meter Amateur bands; 4-speed tuning, microprocessor also controls the LED frequency display. Features include built in AC-DC power supply and speaker, fully synthesized, band selection, and two-register memory for split-frequency operation without an external VFO, no bandswitch or tune-up controls, front panel signal strength meter, forward power, and reflected power, ALC. Sensitivity .5uv for 10 dB S+N/N for SSB and CW. IF image rejection greater than 60dB. Audio output 3½ w into 4 ohm load. 15½x6½x 7½", 50 lbs. Price class \$2100.



SPECTRUM COMMUNICATIONS SC 250 Mobile Transceiver (1979) 136-174 MHz and 220-240 MHz, 6 channels, 35uv Receiver sensitivity, 6 or 8 pole crystal filter, claimed to have beautiful audio on both receive and transmit and a reasonable price. Transmitter output 25 watt is claimed for it.



SPECTRUM COMMUNICATIONS SC 300 Base Station Transceiver (1979) 136-174 and 220-240 MHz Models, 6 channels, .35uv receiver sensitivity, 25-30 watts transmitter output, 6 Or 8 pole crystal filter, built in AC power supply, front panel indicator lights, attractive woodgrain housing. Price unknown.



SPECTRUM COMMUNICATIONS SCR-4000 Repeater for 450MHZ (1979) 30 watt output; sensitivity .35uv/12 dB SINAD typical; selectivity -6dB ±6.5kHz; -100 dB ±30kHz; full metering; has built in AC supply, CW IDer, true FM, jacks for remote control, auto-patch, COR switch, DC out, AF in/out, etc.; 8 pole crystal filter, ultra high stability transmitter crystal oscillator/oven; front end 2 JFETs + 6 pole filter, lighted push-buttons, state-of the-art CMOS-control logic & timers, no relay problems, 250 bit PROM Memory, PL-CTCSS. Reasonable price is claimed.



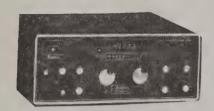
1-2W input, 15W output. Ideal for low power hand-ULTRA I held transceivers. \$259. ULTRA II 3-5W input, 25W output. \$289. ULTRA III 3-5W input, 50W output. \$379.

TELCO PRODUCTS CORP. "ULTRA" Series of 450MHz RF Power Amplifiers (1979) The frequency range of these amplifiers is 400-512 MHz (purchaser specifies frequency he needs). They use stripline construction and are manufactured in



ULTRA IV 3-5W input, 100W output. Maximum output. \$499

compliance with FCC specifications:



SWAN ASTRO 102BX HF 160-10M Transceiver (1979) Dual PTO's, 235 watts PEP SSB & CW, IF Passband tuning, with LED indicators, full break-in. All solid state, modern design and styling, 4 function meter, speech processor, tunable notch filter, VOX, adjustable AGC decay, 2 position CW wave shaping, 16 pole IF filter, crystal CW filter, PLL synthesized band selection. Full coverage of 160 meters through all of 10 meters in 9 ranges. Requires external power supply and speaker such as the Swan PSU-6 at \$179.95. Price class of the 102BX is \$1195.



SWAN ASTRO 150 & 151 HF Transceivers (1979) Model 150 is 80M through 10 Meters in 5 bands; Model 151 is 160M thru 15M in 5 bands. Mobile or base, 235 watts PEP SSB & CW, all bands. Features include microprocessor control w/memory for over 100,000 fully synthesized frequencies, "VRS" (Variable Rate Scanning), dual meter reads PEP output in watts and receive S units, full break-in Ck, mike tuning for a scanning of the state of the st for accurate 100 Hz steps, narrow Xtal filter, all solid state. 3.75x9.75x11.75"D, 13 lbs. Sensitivity .35uV for 10dB(S+N)/N. For base use, the Swan PSU-5 power supply/speaker is available at \$179.95. Price class \$925.00





TEN-TEC "SERIES B" OMNI-A and OMNI-D Transceivers (1979) Series B changes over previous models include a new Notch Filter to remove QRM, a new panel, and provision for installing optional IF filters for superior selectivity. It retains the following features. All solid state: 160-10 meters plus convertible 10MHz and AUX band positions; broadband design for band change without tuneup; selectable break-in, dual range receiver offset tuning ±5kHz or .5kHz, adjustable ALC; 200 watts input to final, built in .25kHz calibrator in the analog model A; S/SWR meter, dual speakers. 5.75x 14.25x14"D. Operates 12VDC. Model 545 Series B OMNI-A(analog dial shown on top) \$949; Model 546 Series B OMINI-D (digital readout) \$1119. Model 252MO matching AC power supply \$139. They already have an 8-pole 2.4kHz crystal ladder IF filter. An optional 1.8kHz SSB filter and a .5kHz 8-pole CW Filter can also be installed if desired.



VoCom Series of 2-Meter Power Amplifiers (1979). Compact, efficient amplifiers. Features include: Harmonic and spurious down 70dB, 10mHz bandwidth for CAP, MARS, efficiency 70% on most models, 1-1.5 watt hand-helds drive the 2-watt model to near rated output, massive heat sink for long life, LED status indicator.

Model 2CO25...2W nominal drive...25W output...\$69.95

Model 2C100...2,10,25W drive(specify)..100W...\$169.95

Model 2C200...10 or 25W drive(specify)..200W..\$259.95

Model 2C400...10 or 25W drive(specify)..400W..\$489.95



YAESU FT-7B Mobile/Base HF Transceiver (1979) High power version of the popular 20 watt FT-7. Frequency coverage: 500 KHz of 80-15 meters, 4 500kHz segments of 10 meters (crystal for 28.5-29.0mHz supplied). Operating modes: LSB, USB, AM, CW. Operates on 13.8VDC. Input power 100w PEP SSB, AM, 100 watts DC CW. Audio peak filter for super CW selectivity, Receiver sensitivity.5uV for 10dB S+N/N, image and IF rejection 50db, Selectivity 2.4kHz and audio peak filter 80 Hz for CW; 3 watt audio output into 4 ohms. 9x3-1/8x12-3/4", 12 lbs. Price class \$675. Shown with the optional YC-7B Plug-in Remote Digital Readout. Optional FP=12 Speaker/power supply also available.



YAESU FT-101Z 160-10 Meter Analog Readout Transceiver (1979) Same specifications as the popular FT-101ZD except no frequency counter or digital display for economy. Amateur bands from 1.8-29.9mHz + WWV/JJY (receive); LSB, USB, CW emission types; requires 100/110/117/200/220/ or 234VAC, DC 13.5V negative ground. Receiver sensitivity .24uV for S/N 10dB; Selectivity: SSB 2.4kHz at -6dB, 4kHz at -60dB; IF bandwidth continuously variable from 2.4kHz to 300Hz, using 2 8-pole IF filters; audio output 3 watts into 4 ohms. Transmitter power input 180 watts DC; carrier suppression better than 40dB; Antenna output impedance 50-75 ohms; microphone input impedance 500-600 ohms (low impedance). 345x157x326mm D, weight approx. 15 kg. Price class \$749. Analog readout model.



YAESU FT-107 160-10 Meter Transceiver (1979) Solid state, 240 watts DC SSB/CW, 160-10 meters + 2 auxiliary bands for future expansion. RF speech processor, SSB, CW, AM, FSK modes, built in SWR meter, audio peak/notch filter, variable bandwidth. Optional "DMS" (Digital Memory Shift) for 12 discrete memories. Stores individual frequencies or use as 12 full coverage VFOs (500kHz each). Receiver sensitivity .25uV for 10dB S/N; Selectivity: SSB 2.4, CW .6kHz, AM 6kHz, at -6dB; variable bandwidth. Audio output 3 watts (4-16 ohms). Antenna input 50 ohms; mic. impedance 500 ohms; power required: 13.5V DC at 20 amps 100/110/117/200/220/234V AC at 650 VA. 80 watts DC input on AM/FSK. Price class unknown.



YAESU FT-127RA 220-MHz Scanning Transceiver (1979) Permit scanning and expanded memory coverage. Features updown scanning control from the microphone. Scanner will also search for a busy or clear channel. 4 memory channels available, 2 for simplex, 3 for repeater channels, one for a split up to 4 MHz. Power output 10 watts, operates on 13.8VDC. 2-3/4x7½x9½", 6 lbs. Price class \$480.

FT-227RB similar for 144 MHz FT-627RA similar for 50 MHz

"HAM EQUIPMENT BUYER'S GUIDE"

PICTURES AND DESCRIPTIONS OF

RECEIVERS - TRANSMITTERS - TRANSCEIVERS

AND

AMPLIFIERS

1980 - 1981 - 1982

Compiled by

Bernarr Wixon (W9MFL)

Published by

Barbara Brand Wixon

189 Kenilworth Avenue, Glen Ellyn, IL 60137

NOTE: The year the equipment was first sold and the first price have been included when available to give some idea of its age and price class but may not be 100% accurate.



INDEX for "HAM EQUIPMENT BUYERS GUIDE" 1980-1982 Update Sheets

NOTE: All models are listed under the manufacturer's name and/or brand name. All prices are those shown as list prices (not their discounted prices). Not responsible for descriptive variations as material is obtained from manufacturer's ads and ad claims.

Manufacturer's Name and Model Number

ACE COMMUNICATIONS . . . Model AR-22 Handheld ACCU-CIRCUITS . . . Model Accu-Memory 11 Digital Readout ADVANCED RECEIVER RESEARCH . . . Model TRIOGA 10 GHz TR/RX . . Model MA87141-1 10GHz TX/RX AMERICAN RADIO . . Model 324 Linear Amplifier AMERITON . . . (No model Number) One KW Booster Amplifier ATLAS . . . Model 210X/215 Transceiver ASTRO (See SWAN/CUBIC) AR-TECHNICAL PRODUCTS CORP . . . Model FL-1 Audio Filter . . Model ASP Speech Processor A-TRONICS . . . Model CW Keyboard . . Model Word Reader for Rtty AUTEK RESEARCH . . . Model QF-lA Audio Filter . . Model MK-l Keyer AZDEN . . . Model PCS-2800 FM Tx/Rx . . Model PCS-3000 2 Mtr. . Model PCS-4000 2 Mtr. BELDEN Coax Cable Specification Chart BENCHER Inc. . . Model XZ-2 Audio Filter . . Model Iambic Key BRIGHT ELECTRONICS . . . Frequency Counters COMMUNICATIONS CONCEPTS . . . 2 Mtr Amps CLEGG COMMUNICATIONS CORP. . . Model FM-88S 2 Mtr Base Station COMTRONIX Inc. Mobile FM . . . Model FM-80 . . Model FM-200 COMMUNICATIONS ELECTRONICS (Bearcat) . . . Scanners - Model 5, Model 5/800, Model 100, Model SX100, Model 160, Model 210/210XL, Model 20/20, Model 250, Model 300, Model 350 CUBIC ELECTRONICS (See Also ASTRO and SWAN Models) . . . Model 102BXA TX/RX . . Model 150A TX/RX . . Model 103 TX/RX DAIWA CORP. . . Model RF-660 Speech Processor . . Model RF-440 Speech Processor . . Models CN-1001 and CNA-1001 Antenna Tuners . . Models CN620B, CN720B, CN630 Power Meters DGM ELECTRONICS . . . Model MKB-2000 Keyboard . . Model MVD-1000 Morse Display Unit DAVIS ELECTRONICS . . . Frequency Counters Model 7200 . . Model CTR-2A DENTRON RADIO CO. . . Models WP-1A and WVP-1A Ant. Meter . . Model L Linear Amp . . Model DTR-1200L Linear . . Model GLA-1000B Linear

Amp . . Model DTR-2000L Linear Amp . . . Model MLA-2500B Linear Amp . . Model RT-3000 and MT-3000A Ant. Tuner . . Model AT-1K and AT-3K Ant. Tuner . . Model DTR-3A Ant. Tuner . . BL-1 Balun . . Model HF-200A Transceiver . . Model HF-ACS Power Supply DIGICOM . . . Model DG800 2 Mtrs

DRAKE . . . Model WH-7 Wattmeter . . Model MN-2700 Ant Match . . Model MN-7 . . Model TR-7 TX/RX . . Model TR-7 and TR-7/DR-7 . . Model R-7 Receiver . . Models R-7A and R-7/DR-7 . . Model L-7 Linear Amp . . Model TR-5 TX/RX . . Model L-75 Linear Amp . . Model Theta 550 Terminal. . Theta 7000E Terminal . . Model TR-930 Video Monitor

- DSI INSTRUMENTS, Inc. Frequency Counters . . . Models 100HH, 500HH, MAX 550, OPT 7000, C700, C1000, 5600-W, 3550, 3600, 3700
- ENCOMM INC. (SANTEC) . . . Model HT-1200 Handheld 2 mtr . . Model ST-7/T
- ETO (Erhorn Technological Operations) . . . Model 76A Linear Amp . . 76PA Linear . . 76CA Linear . . 77DX Linear . . Model 374 No Tune Linear
- FLESHER CORP. . . Model TR-128 Baud Converter . . Model TU-170 Terminal . . Model TU-300 Terminal
- FDK (See ENCOMM) . . . Model Palm 11 . . Palm IV Handhelds
- HAMTRONICS . . . Model XV2/LPA2-45 . . Model XV4/LPA4-30 Converter and Power Amps
- HEATH . . . Model HR-1680 Rcvr . . Model HX-1681 CW Xmtr . . Model VF-7401 2 Mtr RX/TX
- ICM . . . Model RF 1200 Amplifier
- HAL COMMUNICATIONS CORP . . . Rtty Equipment . . Model CT2100 Terminal . . Model KB2100 Keyboard . . Model ST5000 Demodulator . . Model ST6000 Demodulator . . Model CWR-685A Telereader . . Model CWR-6850 Keyboard and Telereader
- HENRY RADIO (TEMPO) . . . Models S-1, S-2, S-4, S-5, S-15, 1KD-5 Linear . . 2KD-5 Linear
- ICM . . . Model RF 1200 Amplifier
- ICOM . . . Model IC-2A/IC-2AT 2 Mtr Handheld . . Model IC-22U Mobile . Model IC-280 Mobile . . Model IC-251A 2 Mtr RX/TX . . Model IC-260A Mobile . . Model IC-551D 6 Mtr RX/TX . . Model IC-701 All Band Transceiver . . Model IC-720 HF All Band Transceiver . . Model IC-451 A 432MHz Base Station . . Model IC-560 6 Mtr Mobile . . Model IC-740 All Band Transceiver . . Model IC-2KL Linear . . Model IC-AT-500 Ant. Tuner . . Model 25A Mobile . . Model IC-45A . . Model IC-290H Mobile . . Model IC-490A Mobile . . Model 720A All Band . . Model IC-730 Port/Mobile RX/TX . . Model IC-740A Port/Mobile RX/TX
- JRC (JAPAN RADIO COMPANY) . . . Model NRD-515 Rcvr . . Model NSD-515
 Matching Xmtr
- INFO-TECH INC. . . Model M-200 Demodulator for Rtty . . Model M-200-FA Demodulator
- IRL Demodulators . . . Models FSK-500 and FSK-100
- KANTRONICS . . . Field Day Model for Rtty . . Signal Enforcer Audio Filter . . Freedom VFO
- KDK . . . Model FM-2025A 2 Mtr Transceiver . . Model FM-2016A 2 Mtr Mobile . . Model FM-2030 Mobile
- KENWOOD . . . Model TR-7850 Mobile . . Model TR-7730 Mobile . . Model TS-830S All Band RX/TX . . Model TS-120S SSB Mobile . . Model TS-130S/V Transceiver . . Model TS-930S All Band Transceiver . . Model TR-9000 All Band All Modes . . Model TR-9130 W/Autopatch TR9000 . . Model TR-7800 Mobile . . Model TR-8400 70 CM Mobile . Model TS-130S All Band SSB/CW . . Model TR-9500 Mobile . . Model TR-7850 Mobile . . Model TS-660 Quad Mobile . . Model DFC230
- KLM (A Family of UHF and VHF Amplifiers) . . . PAlO-170 BL Amplifier
 . . MA-35BL Amplifier . . MA-25BL Amplifier . . MA-25B Amplifier
- KONA COM . . . Model FM-80 Mobile
- LUNAR ELECTRONICS . . . Model 4-40P 2 Mtr Linear . . Model 220/TV Transverter for UHF/VHF
- MAGNUS METRON . . . Models Al000 and A2000 Base Station Amplifiers

MIRAGE . . . Model 2 Mtr Amplifiers . . Models B1016, B1060, and B3016 Amplifiers M AND M . . . Model SS-105D 5 Band Transceiver MICROCRAFT . . . Rtty Model RRK Reader . . Model MAK-K Keyboard MICROLOG CORP . . . Model ATR-6800 Rtty Keyboard MJF ENTERPRISES . . . Model 8044 Keyer . . Model 484 Memory Keyer . . Model 751 SSB/CW Filter . . Model 752 SSB/CW Filter MURCH ELECTRONICS . . . Model UT-2000B Transmatch NCG COMPANY . . . Model NCG 15SB 15 Mtr Mobile WM. NYE COMPANY (NYE VIKING) . . . Model SSK-1-K lambic Keyer . . Model SKM-001 Memory Keyer . . Model 250-0046-001 Phone Patch . . Model Viking MB11 Imped. Match OPTO ELECTRONICS Frequency Counters . . . See Mfrs Tabulation Chart PALAMAR ENGINEERS . . . Automatic Key (no model number) RF POWER LABS . . . Models V350, V360, A1000 RF Booster Amplifiers ROBOT RESEARCH INC. Terminal Equipment . . . Model 800 Keyboard . . Model 400 Scan Converter ROCKWELL INTERNATIONAL (Maker of COLLINS Laber) . . . Collins Model KWM-380 HF Transceiver SIGNAL ONE CORP . . . Model CX-11A . . Model 1030 Military Spec Transceivers SPECTRUM COMMUNICATIONS . . . Model SCR 1000 VHF FM Repeater . . Model SCR 4000 . . . Models PCL-250 and PCL-300 SWAN ELECTRONICS (See Also ASTRO/CUBIC/SWAN) . . . Model 100MX Portable RX/TX . . Model 102BX All Band Transceiver . . Model 150 SSB Transceiver . . Model 350B SSB Transceiver . . Model 3500 Transceiver . . Model 1200z, 1500z and Mark 11 Linear Amps SCIENTIFIC RADIO SYSTEMS . . . Model SR-300 TX/RX . . Model SR-315 XTAL Generator . . Model SR-340 SYNCHAN . . Model SR-380 Synthesized TEN-TEC . . . Model 234 Speech Processor . . Model 444 Linear . . Models 509, 283, 515, 525 QRP Transceivers . . Models 540/544. 545/546, 560, 570/574, 580 All Band Transceivers TOKYO HY POWER LABS . . . Models 150, 2000 Antenna Tuners VIBROPLEX . . . Automatic Keys - Bug, Vibrokeyer, Iambic VO-COM PRODUCTS . . . Models 2C025 and 2C100 HF Boosters WILSON ELECTRONICS . . . Models Mark 11 and Mark 1V Handheld 2 mtrs WANECO RADIO . . . Model 1040R Audio Filter Processor XITEX CORP . . . Model SCT-100 Keyboard . . Model MRS-100 Morse Transceiver YAESU . . . Model FT-101ZD All Band Transceiver . . Model FT-102 All Band RX/TX . . Model FT-107M Transceiver . . Models FT-207R FT-208R, FT-708R, FT-404R Handheld Transceivers . . Model FT-230R Mobile . . Models FT-480R and FT-780R Base Station . . Model FT-680R 6 Mtr All Mode . . Model FT-707 All Band All Mode Transceiver . . Model FT-902DM All Band All Mode Transceiver

. . Models FT-720R, FT-720RU, FT-720RVH Mobile Systems



ACE COMMUNICATIONS AR-22 Synthesized VHF FM Monitor Receiver (1980) Full band coverage 141.000 to 149.995 MHz in 5 KHz steps by digital switches. Compact: Slim size and lightweight: 5½x2½x1" Thick, weight 7.1 oz with Nicad battery pack. Price factory direct to purchaser in U.S. \$125. Commercial band type (151-159 MHz) also available.



ACCU-CIRCUITS., Accu-memoryll. An updated design by WB4VVF.Feature 8-512 bit messages, digital speed readout, automatic spacing of characters in send and load modes, automatic word spacing in the load mode.6 digit 24 hour clock has crystal reference. counts down to one word p/min. Made to key grid block or negative keying :can be changed for positive keying or relays. Price class \$229





ADVANCED RECEIVER RESEARCH...GUNNPLEXER.(1981).

MODEL TR10GA...A complete ready to use 10GHz FM voice/cw transceiver.10 milliwatts power output Typical frequency coverage 10.235 tp 10.296 GHz. Full duplex operation.Normally mounted to a tower, but can be removed for fixed location service. Powered by 13 volts dc at 250 ma. VCO tuning, Price with Gunnplexer \$389.95..W/O \$269.95



AMERICAN RADIO "324" Linear Amplifier for Hand Held Transceivers (1980). Especially designed for the Kenwood TR-2400 which plugs directly into the "324" compact assembly. V-Mos power transistor gives 25w RF across band w/l.5w drive. Built in amp/spkr boosts audio more than 2w. Also includes a current limited charger for the TR-2400. Socket for ext PTT mic. Operates 12vdc @.4a. \$199.95

AMERITON (1981) A one kilowatt booster amplifier. Covers 1.8 to 21.5 MHz ham bands. Input impedance 50 ohms, tuned input. Output 50 to 100 ohms with SWR of 2/1 or less. Drive requirements 65 watts PEP on SSB,55 watts on CW. Price class \$649.95

ATLAS 210X/215 (1980) A 200 watt transceiver covers 80 to 10 meters. Has RIT ,noise blanker analog readout. Not much published info avail. Initial price \$810, sale at \$680



ASTRO (See also SWAN/CUBIC)

AR -(Technical Products Corp.)Birmingham Michigan Model FL-1 is called the ultimate QRM killer and is usfull for improving the readability of signals for SSB,CW,RTTY,etc.Band width variable from 20 Hz to 1000 Hz with center frequency variable from 200 to 3000 Hz. Operates from 9 volt battery or any source from 6-12 volts d.c.Price class \$219.95

AR - Model ASP.. An automatoc speech processor to increase your "talk Power" Can be used on AM,FM or SSB. No manual setting required, just select the amount of control via push button, that's all. Up to 30 db of control. Price class \$259.95,

A-TRONICS , Laguna Hills Calif.

CW KEYBOARD..Has 64 character buffer.Perfectly timed code..adjustable from 5 to 50 WPM . Has relay output so can be plugged in like a key.. Side tone loud speaker.Price class \$249

Word reader. 16 position display, recognizes 45 Alpha-numeric and punctuation characters from morse code receiver output between 5 and 50 WPM. Automatic word space and moving cursor assure easy reading. All solid state. Price \$295

AUTEK RESEARCH - Sherman Oaks , Calif.

Model QF-1A is an active audio filter to improve reduction of interference. Operates from 120 v a.c. Has super notch rejection control, four main filter modesto meet differing QRM situations. Continuous variable of main frequency from 250 to 2500 Hz. Price class \$65..

Model MK-1 is a CMOS programable keyer. Calls CQ while you relax. remembers name QTH, contest exchanges. Dot and dash memories, triggered clock. Iambic self completing, jam proof. 5 to 50 WPM. Price class \$99.50

ADVANCED RECEIVER RESEARCH..Trade name Gunnplexers... Microwave (horn) type transceivers for 10 GHz. MA87141-1 priced at \$239.95 per pair. For further info write the Manufacturer AAR Box 1242. Burlington, Ct 06013 and say you saw it in the Ham Trader publication.





AZDEN PCS-2800 10M Transceiver (1980) Microcomputer controlled, 28.0 to 29.995 MHz, 10kHz steps with built-in 100 kHz repeater offset; all solid state-CMOS PL Digital Synthesized; all scan-ning and freq. controí functions performed by microcomputer. Detachable control head; 6 channel memory, memory scan, mic controlled volume & squelch; direct frequency readout; 1 or 10 watt out put with LED display of power selection.

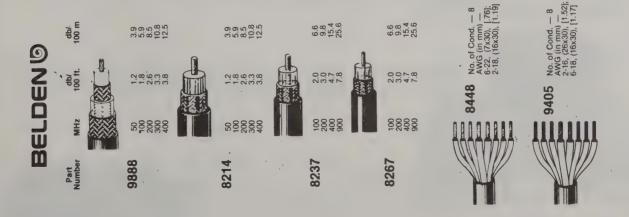
Has digital S/RF meter, superior receiver sensitivity: .28uV for 20-dB quieting; sensitive squelch requiring less than .1 uv to open. True FM, not phase modulation. Other features include dynamic mic., built in speaker, mobile mounting bracket. Weight 6 lbs. Price Class \$299. Accessory FMPS-4R A/C power supply \$39.95.

AZDEN PCS-3000 2-Meter FM Transceiver (1980) 8mHz Freq. coverage 142.000 to 149.995 MHz including CAP/MARS Built in. Selectable 5 or 10 kHz steps. Microcomputer control: All frequency control is carried out by a microcomputer. Musical tone accompanies keyboard entries. Pushbutton freq. control from microphone or panel. 8 Channel memory. Instant memory recall. Programmable band scan and memory scan. An AZDEN exclusive feature is discriminator scan control so the scanner stops by scanning the channel center so unit always lands on the correct frequency. 3 scan modes with auto resume. Remotable head...may be as much as 15' from the unit with accessory cable. PL tone oscillator built in. Mic. freq. and volume control. 25 watts output, also 5 watts for low power in portable use if desired. Green LED freq. display. Sensitivy better than .28uV for 20-dB quieting. Illuminated keyboard. True FM, not phase modulation. Dynamic mic., built-in speaker, mobile mouting bracket, external speaker jack, etc. \$339.

AZDEN .. Made by Japan Piezo Co. Ltd..

Azden PCS-4000. (1981) . A two meter 25 watt unit for either mobile or permanent location. Covers 142.000 to 149.995 MHz in steps of 5 or 10 kHz.Digital readout. 16 channel memory in two 8 channel banks. Two ranges of programmable scanning. Exclusive scan centering circuit stops right on frequency. Digital S/RF meter . Full 16 key touch tone pad functions as autopatch when transmitting. True FM-not phase modulated. Price class about \$350.. Accessories CS-6R a.c. power supply... Similar in appearance to PSC-3000





BENCHER, INC., MODEL XZ-2 ., CW audio filter, Called the copy machine, but also useful for SSB. Has four active stages, true band pass filter tuneable center frequency. Band widths are 90,115 150 HZ and SSB. Requires 12 volt power supply.1 watt audio output. Price \$69.95.. Power supply \$9.95



BENCHER, INC. Ultimate IAMBIC PADDLE key for fast cw sending. A competitor to Vibroplex operates on the same principles for side to side dot dash paddle motion, Price for Standard\$40 . Deluxe \$50

BRIGHT ELECTRONICS.. Frequency counters.

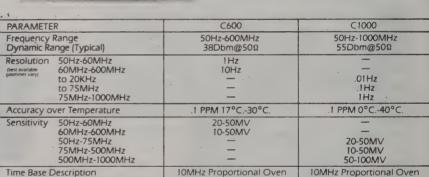
See manufacturers feature data chart



PARAMETER	A500	A500E (Extended Range)	
Frequency Range Dynamic Range (Typical)	50Hz-500MHz 35Dbm@50Ω	50Hz-1100 MHz 35Dbm@50Ω	
Resolution 50Hz-50MHz [Dest available gaterines vary] 50MHz-500MHz 500MHz-100MHz	.1 Hz 10Hz NA	.1 Hz 10Hz 100Hz	
Accuracy over Temperature	.1 PPM 17°C30°C.	.1 PPM 17°C30°C.	
Sensitivity 50Hz-50MHz 50MHz-500MHz 500MHz-1100MHz	1-10MV 10-50MV NA	1-10MV 10-50MV 50-100MV	
Time Base Description	10MHz Proportional Oven	10MHz Proportional Oven	
Size and Number of Digits	9@.5''	9@.5''	
Price incl. antenna & AC supply	\$185.95	\$215.95	

Available options: Nicad Battery Pack (\$29.95)





Available options: C1000-1.25 Extended Range, Full 9 Digit Resolution, Nicad Battery Pack C600-Nicad Battery Pack

'C1000 shown with full 9 digit resolution option

Size and Number of Digits Price incl. antenna & AC supply



COMMUNICATIONS CONCEPTS 875-K 2 Meter FM or SSB Amplifier Kit (1980) 10 watts in, 75 watts out. Complete kit Model 875-K for 2 Meter FM or SSB \$109.95.

CLEGG COMMUNICATIONS CORP..Clegg..(1981). Model FM88S . A two meter base station transceiver. Covers 143 to 148.995 MHz in 5 KHz steps. Scans also same range. Provisions for splits incl. MARS and CAP. Digital frequency display. 25 watts output. Has memory capacity up to 800 channels. Price \$429.95.



FM-88S WITH 800 CHANNEL SCANNER

COMTRONIX, INC...Trade name Comtronix. (1980).

Mobile FM packages. Model FM200 is for 52 to 53.99 MHz.

Model FM-80 is for 28.91 to 29.7MHz. Same features
for both models. Broad band tuning-no tuning needed.

frequency synthesized-no xtals to buy. Channelizedwsitchable in 10 kHz steps. 10 watts power output.

Can shift to as many as 79 - 100 offset channels.

Price, Model FM200 \$289. For Model FM-80 \$269



COMMUNICATIONS ELECTRONICS, Ann Arbor, Michigan.. Trade name "BEARCAT" (1980-81)

ELECTRA COMPANY (Makes BEARCAT scanners).

This line has been introduced over a period of time but the various models seem to be versions of the same basic designs with feature modifications.

MODEL 5...8 crystal controlled channels, three bands a.c. operated only. Covers 33-50,146-174,450 508 MHz. List price \$129.95

 $\underline{\text{MODEL } 5/800}$...This is an 800MHz version of the model 5 . List price \$179.95

MODEL 100...A no crystal programmable handheld scanner. 8 bands,16 channel.Liquid crystal display. Search.Limit. Hold. Lockout.AC/DC. Covers ranges 30-50,138-174,406-512 MHz.List price \$449.95

MODEL SX100...An ac/dc operated table top scanner. Has 9 digit green display of frequency. 16 channels Covers 30-54 . 140-;80, 410-514 MHz . Has digital clock and date display.Built-in speaker.List \$199.95

MODEL 160...An ac only scanner.5 bands. a crystal-less scanner. Features priority, direct channel access, dual scan speeds, lock-out, scan delay, squelch, more. Covers 32-50, 144-174, 440-512 MHz.List \$299.95

MODEL 210/210XL...A crystal-less 6 band,18 channel ac/dc scanner. featuring dual scan speeds,automatic search, scan delay, Has bright green digital display. Covers 32-50, 144-174, 421-512 MHz.List \$349.95

MODEL 20/20...A crystal-less scanner.ac/dc. 7 bands,40 channels, Searches AM aircraft and publis service bands. Can monitor 20 channels at a time. Priority channel, direct access and delay. This model replaces the 220..List \$449.95

MODEL 250... An ac/dc operated scanner.Has push button controls to program up to 50 channels,6 bands. Crystal-less., searches, stores recalls. Has digital clock.Priority, delay, count feature. Covers ranges 32-50, 146-174, 420-512 MHz. List \$429.95



Bearcat® 210



Bearcat 20/20

BEARCAT CONTINUED

MODEL 300...An ac/dc scanner, push button operated. 7 bands,50 channels, has the most advanced automatic scan circuits. Bright green digital readout display Features Services search, AM aircraft and public service bands, display intensity control hold search and resume keys separate band keys to lock out any band for easier scanning. Covers 30-50. 144-174, 421-512 MHz. List price \$549.95

MODEL 350... The top of the line scanner.Operated ac/dc.A breakthru using synthesized scanning Alpha Numeric display can be switched to show word description of what's being monitored. 7 bands, monitored in 5 banks. Has auto and manual search, search direction, limit and count, direct channel access selective scan delay, dual scan speeds automatic lockout, auto squelch. List \$599.95



50-Channel Bearcat 300



Bearcat® 350

CUBIC ELECTRONICS, Oceanside, California (See also Astro and Swan labels)





CUBIC COMMUNICATIONS Astro 102BXA HF 160-10M Transceiver (1980) NOTE: Similar to the SWAN Astro-102BX which Cubic replaced except that the old CWN crystal filter has been removed. The name CUBIC replaces SWAN as well. Featured are dual PTO's, 235 watts PEP SSB & CW, IF Passband tuning, with LED indicators, full CW break-in. All solid state, modern design and styling, 4 function meter, speech processor, tunable notch filter, VOX, adjustable AGC decay, PLL synthesized band selection. Full coverage of 160 meters thru all of 10 meters in 9 ranges. Requires external power supply and speaker such as the PSU-6 at \$179.95. Price class of the Astro 102BXA remains at \$1195. A CWN 400Hz 6 pole filter to operate with the passband tuning is available for \$82.50.

CUBIC COMMUNICATIONS Astro 150A HF SSB Transceiver (1980) NOTE: Similar to the SWAN Astro-150 which Cubic replaced. The name CUBIC has replaced SWAN although Astro is still used on the face of the meter. Features include "VRS" a knob with a new twist, and over 100,000 fully microprocessor-controlled frequencies in present or envisioned future ham bands. 80M thru 10 Meters in 5 bands. Mobile or base; 235 watts PEP SSB & CW, all bands. Fully synthesized Variable Rate Scanning (VRS), dual meter reads PEP output in watts and receive S units, full break-in CW, mike tuning for accurate 100 Hz steps. narrow Xtal filter, all solid state. Sensitivity .35uV for 10dB(S+N)/N. 3.75 x9.75x11.75"D. 13 lbs. For base use, the PSU-5 power supply/speaker is available. Price \$925.

CUBIC COMMUNICATIONS ASTRO-103 All Band Transceiver (1980) The Cubic ASTRO-103 expands on the ASTRO-102BXA with the addition of these features: RTTY, an input connector for a separate receive antenna, and all band coverage from 160 thru 10 meters including new bands at 10, 18, and 24.5 MHz, and WWV. An optional 400Hz crystal filter can be cascaded with one of the 8-pole IF filters for excellent CW operation. Other features include dual independent high stability PTO's for split band DX, built in VSWR meter, fast break-in (QSK), RTTY, VOX, 160 thru 10 including WARC bands, fully variable AGC decay, dual 8-pole filters, noise blanker, speech processor. Price class \$1395

DAIWA CORPORATION..Distributed by Miller/Bell.
SWR and power meters and speech processors.(1981).

Model RF-660 speech processor. Increases talk power better than 6 dB, clipping threshold less than 2 mV at lkHz, clipping level adjustable from front control. Freq. response 300-3000 Hz at 12 dB down. Output level more than 50 mV at lkHz, Operates from 13.5 dc volts, Price \$ ***

Model RF-440, speech processor. A more powerful ac/dc operated model similar in operating features to the RF=660 with meter to shoe clipping level, Price 3 ***

Model CN-1001 and CNA-1001 (CNA is later version), Automatic antenna tuner, frequency range is 3.5 to 30 MHz including WARK bands. Has 50 watt dummy load. Impedance matching 15 to 250 ohms to 50 ohm resistor. Input power required for automatic tune-1.5 to 10 watts. Tune up time - 45 seconds max. Power required -13.8VDC/2 Amp. Price \$364

Simultaneous SWR/Forward and Reflected power Meters.

SWR detection sensitivity - all models- 5 watts. Max forward power readings to 2000 watts, divided into three reanges.

Model CN-620B ..1.8 to 150 MHz. Price \$124.60 Model CN-720B ..1.8 to 150 MHz. Price \$175 Model CN-630 .. 140 to 450 MHz. Price \$147

*** Note: Normal selling prices not available at publication.





RF Speech Processor Model RF-660





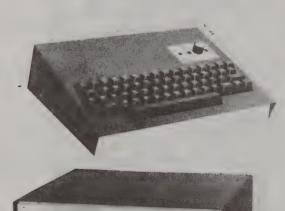




DGM ELECTRONICS, INC. .. Beloit, Wisc. (1981) Equipment for Morse / RTTY / ASCI

Model MKB-2000 keyboard. Has completeset of alphanumeric, punctuation, and special function keys, 512 character text buffer, 10 reprogramable 50 character message memories, 5 to 99 WPM, sidetone, MKB-2000 is Morse only, Price \$319.95 RTTY/ASCI Option is \$75

Model MVD-1000 ..Unit copies Morse code directly from your receiver, automatic speed tracking, range 6 to 60 WPM.active filters and digital sampling for increased noise rejection. Connect to any TV set for visual display. Price for Basic \$369 Optional RTTY/ASCI is \$89





DAVIS ELECTRONICS..Tonowanda N.Y. (1980), Mini sized frequency counters.Available as kit or assembled. Prices are for assembled. These are general purpose unstruments.

Model 7200..8 digit 4" LED display, crytal time gase, selectable gate times .600MHz counter, ac/12 volt battery. Price \$199.95

Model CTR-2A 500 MHz range,8 digit LED display, High stability TXCO!1PPM oven controlled crystal. preamp 10mv @150 MHz.Diode input protection, selectablegate times. Price \$349.95

Same features as above but for 1GHz.Price \$549.95

Note: Material available does not give lowest freq.



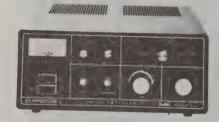


<u>DENTRON RADIO CO., INC.</u>. Stow Ohio., <u>Trade name DenTron</u> (1980-1981).. Manufacturer of high power booster amplifiers and antenna accessories.

Model WP-1A ..An antenna metering and SWR meter covers 160 to 6 meters up to 2000 watts. Shows peak reading wirh a hold functi-n. Also has a built in SWR bridge.. 3 1/2 " meter easy to read. Price \$149.95

Model WVP-1A.. Same as above but for range of 50 to 150 MHz. Price \$149.95

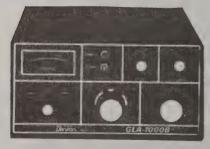




DENTRON Clipperton-L Linear Amplifier with Tuned Input Modification (1980) Tuned input has been included in the latest Clipperton-L. Other features include: 160 - 15 meters, 2KW PEP SSB, 1KW DC CW,RTTY,SSTV, 4 rugged 572B's in the final, hi-lo power selector, vacuum impregnated power transformer, wide spaced tuning and loading capacitors, built in ALC and whisper-quiet cooling system. 14½x14½x6"H, 42 lbs. Price class \$699.50



DENTRON DTR-1200L Linear Amplifier (1980) 80-15m with some MARS, 1200w PEP SSB, 1000w CW, 2 572B's, 65-150w drive, tuned input compatible with solid state rigs. Modes include USB, LSB, CW, RTTY, SSTV, continuous duty cycle, ALC, Multimeter shows plate voltage, plate current, relative output. 5½x17x19" (w/rack bkts)x14"D. 46 lbs. Price class \$665. Requires 117/234VAC 50/60Hz.



DENTRON GLA-1000B Linear Amplifier (1980) 80-15M(may be modified to cover 10 meters by a licensed amateur) some MARS. 1200w PEP SSB, 700w CW DC, 4 D-50A tubes in final, tuned input compatible with solid state rigs. 125w maximum drive. Fan cooled. Self contained 115/230v AC power supply, 50 ohm input impedance, front panel antenna switch which allows selection of a dummy load or alternate antenna system, LED status indicators, complete metering of essential voltages, currents, and relative power output. Compact size. Price class \$399.50

Model DTR-2000L. Linear amplifier Covers160-15 m. Legal power limit on SSB, CW, RTTY, SSTV. Has one 8877 tube, requires 65 to 125 watts drive for full output depending upon mode . Price \$1300



Model MLA-2500B. Linear amplifier with 2 KW PEP output on SSB,1 KW on CW.RTTY.SSTV. Uses two 8875 tubes. Requires 60-135 watts drive for full output depending upon mode. Price \$999

Both amplifiers cover 160 to 15 meters. Has50 ohm inputs and output impedances.a.c.operation.

The following models are antenna tuners:

Model RT-3000.A roller inductor tuner,3 KW PEP from 1.8 to 30 MHz continuous. Tunes coax and wire anrennas or balanced 1kne with optional BL-1 balun. Vernier dial wattmeter. Price \$299

Model MT-3000A,, A more complete antenna tuner handles up to 3 KW PEP from 1.8 to 30 MHz. Has built in balun and dummy load. Tunes coax, wires and balanced lines. Metered. Price \$399

Model AT-1K..A 1200 Watt PEP antenna tuner for 1.8 to 30 MHz. Will tune coax, wires, and balanced line with optional balun BL-1. Metered. Price \$149

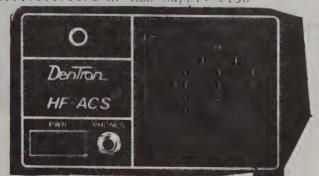
Model AT-3K..A higher power handling antenna tuner similar to AT-1K. 3 KW PEP handling .Price\$259

Model DTR-3A.. a version similar to AT-3 in oper ating features but has metered indicators .Size and style matches Linear amplifier DTR 1200L Price \$499

Note: Balun BL-1 referred to for above units is priced at \$49. (not shown).

Model HF-200A. A concept ham band transceiver with simplified operation.(1981). Covers in 6 ranges from 80 thru the 28.5 - 29 .0 MHz (10 mtrs). xtals available to extend the 10 mtr band coverage. Godes - SSB(USB,LSB) CW,RTTY,SSTV.Good frequency stabliity and readout accuracy. Power needed 13.6 $_{\rm W}$ d.c at 2 Amp. Power supply HF-ACS available. Receiver sensivity less than 0.25 uv for 10 dB

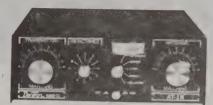
Selectivity: 2.4 KHz at -6dB: 4.4 KHz at -60 dB. AGC, IF freq-9 MHz,IF image and rejection greater than 50 dB. Audio output 1 watt to 8 ohms. Transmitter output SSB -200 watts PEP,CW -100 watts RTTY and SSTV -100 watts. Load impedance -50 ohms Carrier suppression greater than 50 dB.Low factors of spurious output/harmonics,IMD. CW keying - closed circuit to ground.Use low impedance mic. Price \$699.95..Price HF-ACS supply \$130







DenTron RT-3000



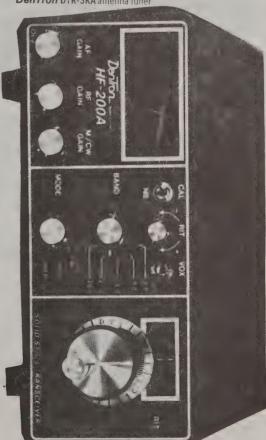
DenTron AT-1K



DenTron AT-3K



DenTron DTR-3KA antenna tuner





DIGICOM DG800 2 Meter Synthesized Hand Held FM Transceiver (1980) 800 Channels. Features include switchable 5 watt down to I watt power output, high capacity 12v battery pack, 144 to 147.995 MHz by 5kHz steps, BNC antenna connector, external speaker microphone connector, internal condenser mic., super sensitivity of .2uV 12 dB SINAD. Super selective 16.9MHz Monolithic filter and 455kHz ceramic filter. All stages varactor tuned both on RX and TX. 500 mw of clean audio output. Small size: 165mmx63mmx40mmD. With Rubber Ant., Wall Charger, Battery Pack price class is \$239. Accessories include Touch Tone Pad(Digitran), Speaker Microphone.



All controls are on the Top.

R.L.DRAKE COMPANY, Miamisburg, Ohio. DRAKE products.

Model WH-7...A wattmeter that is of the thru line type. Has three ranges 0 to 20,200 2000 watts. Meter also can be switched for VSWR readings. Ideal for matching antenna and adjusting to resonance and impedance. Price \$89 (1980)

Model MN-2700.. A 2 KW antennat matching network has an unique feed switching arrangement to make matching the various types of feed lines to the antenna. Effective from 160 to 10 meters. Price \$349 (1980)

Model MN-7.. Same features as MN-2700 but power handling limited to 250 watts. Price \$239 (1980)

Balun B-1000 available for the above .Price \$29.95

The following models were released in 1980 and upgraded in 1981. They have the same general features. Differences are noted.TR-7,R7.

Model TR-7.. transceiver.Built-in power supply. Broad band solid state design,covers 0-30 Hz receive,160-10 meters transmit.SSB,CW,RTTY, Provision for MARS, and WARC. Synthesized PTO. Band pass tuning for high selectivity,48 MHz up conversion for better image performance.PA input on all 250 watts. Built in watt meter RIT, Noise blanker.Price \$1599

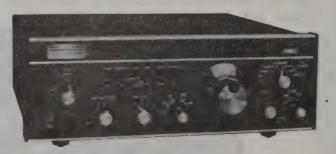
Model TR-7 → TR-7/DR-7 are later versions with added features, crystals added new noise blanker, change in mic circuit. Price \$1839

Model R-7. Receiver.All solid state design.Has synthesized tuning.Up conversion to 48 MHz for better performance.Front end band pass filters Synchro phase AM detector for improved SW performance. Tuneable IF notch filter.Digital readout (useable as 150MHz counter).Built-in speaker. Can be coupled to TR-7to use as a supplementary dual receive/send arrangement. R.c. operated. Price \$1599 Power supply PS7 \$299





DRAKE TR7 TRANSCEIVER



DRAKE R-7 RECEIVER

ModelsR-7A and R-7/DR-7 are upgrades of the above model R-7 and include a new noise blanking cicuit and selectivity choices thru the inclusion of crystal filters. Power supply is not included (see above) Price \$1649

Model L-7..A 2 KW liear amplifier on SSB, 1 KW on CW,RTTY,SSTV.Rated for continuous duty.Covers 160 to 10 meter ham bands. Uses two Eimac 3-500Z tubes. Built in watt meter with forward/reverse readings.Temperature fan.Band pass switching. Adjustable agc feedback circuit. Also covers MARS and WARC. Price \$1330

Model TR-5.. (1982). Transceiver. A low cost model. Has general appearance of other Drake models. Has exceptional performance thru use of technology from TR-7. Has passive diode-ring double balanced mixer, Covers all ham bands. Digital readout, all modes. Requires separate power supply PS-75. Linear amplifier recommended for greater power out. (1200 watts). Price \$799.95. PS-75 \$199

Model L-75..Linear amplifier..1.2 PEP rated , and 1 KW rated for CW.Covers 160 to 10 meters. Can be modified for MARS and other band expansions. A.c operated. Uses 3 -500Z triodes.Price \$845.95

The following were introduced in 1982. They are digitized communication centers.

Model Theta 550.. A compact receive only terminal Can be connected to any standard TV set for visual readout of CW Morse, RTTY -Baudot-ASCII. Has selective calling, battery backup memory, audio monitor. Also interface to permit the addition of a hard copy dot matrix printer. CW automatically tracks speed 5 to 50 WPM. Requires 12 volts d.c

Model Theta 70000E. Microprocessor-controlled communications terminal.Complete send/receive of Morse(cw)Baudot (RTTY) and ASCIIcode (RTTY). Will give a visual display with any video monitor. 7 channel backup mempry each of which can hold up to 64 characters.,can be repeated from keyboard. Auto lock on receive 5 to 50 WPM.Standard for Baudot and ASCII codes. Self contained demodulator. Has printer interface. Requires d.c. voltage package PS-7 or PS-75 listed above. Price \$1095

Model TR-930. Video monitor for use with 7000E. 7" face size .connects to keyboard.Also use with models 550 and 900E . Price \$185



DRAKE L-7 LINEAR AMPLIFIER



SIMILAR TO MODEL L-7 BUT ONLY ONE METER





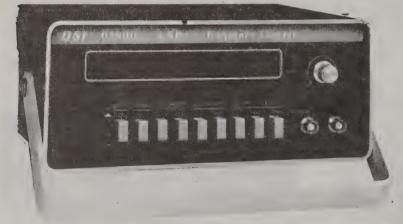
DSI INSTRUMENTS, INC., SanDiego, Calif. Label DSI...... Digital requency counters. The major specifications are listed in chart form as most of the features are common . The accuraccy figures are not given by model but vary from . 2PPM to .5 PPM. Sensivity is shown as over the range. Altho these models are available in kit form we show the factory assmbled prices, to concerve space.

The following models are hand held versions, ultra small, ac/dc 9 voltbattery.

Model	Frequency range	Time base	Sensitivity	Digits/Size	e Price
100нн	50Hz to 100MHz	TCXO	25 mv	8 / 4"	119.95
500HH	50 Hz to 550 MHz	TCXO	25-30 mv	8 / 4."	169.95
MAX550	1Hz to 550 MHz	No Comp	250 to 500 mv	6 / 1"	149.95
OPT7000	10Hz to 550 MHz	TCXO	N/A	7 / 4"	139.95

The following models are portable which can also be used for bench work.All are ac/battery operated. Feature such auto zero blanking | Hz resolution, auto decimal point, 10 MHz time base, Models 5600 and C1000 have push button operating controls on the front panel.

<u>Model</u>	Frequency range	Time base	Sensitivity	Digits/Size	Price
C700	50Hz to 700 MHz	10 MHz	10 - 50 mv	8 / 1/2"	369,95
C1000	10Hz to 1 GHz	10 MHz	20 to 500 mv	9 / 1/2"	499.95
5600-W	50Hz to 600 MHz	10 MHz	10 to 50 mv	9 / 1/2"	179.95
3550 •	50Hz to 550 MHz	10 MHz	25 to 75 mv	8 / 1/2"	149,95
3600	50Hz to 600 MHz	N/A	10 to 50 mv	8 / 1/2"	199.95
3700	50Hz to 700 MHz	N/A	10 to 50 mv	8 / 1/2"	269.95



ENCOMM, INC. Plano, Texas. Trade name SANTEC (1981)

Model HT-1200...A popular hand held 2 meter transceiver.4 watt output. Fully integrated key-board,10 memories,4 mode scanning. Controls on top of unit. digital display. Covers 143-149.99 MHz. Scans in 5 kHz steps remote mic jack. Operates from NiCad batteries. Price \$379

 $\underline{\text{Model ST-7/T.}}$. Same features as for HT-1200 but for the 440 MHz band.Output is 3 watts max.



ETO - Ehrhorn Technological Operations, Canon City. Co This company produces a line of linear amplifiers under the trade name of ALPHA .(1980 - 1981)..

Model 76A ..Linear amplifier.This version made using different tube compliments. The A version has two8874 tubes. Has a full KW CCS power supply. Tubes cooled by ETO's exclusive ducted system. Heavy silver plated tubing coil in a full PI-L networlthat extends to 160 meters.Metered indicators. New "no tune up" system.Efficiency better than 60%.Price \$1985

Model 76PA uses three 8874 tubes for increased output..Price \$2395

Model 76CA uses three 8874 tubes but has a heavy duty power transformer for still more output. Price \$2695

Model 77DX. Said to be the ultimate in amplifiers. Uses Eimac 8877 tube has 1500 watts of plate dissipation. Transformer is special 4.4 KVA ,removeable, plug-in. Vacuum super quiet relays Plate out put to full Pi-L vacuum tuning cap. Ducted air fan cooling, A.c. Price \$3595

Model 374..An amplifier with "no tune up" convenience- new with Alpha. 2KW PEP. Uses two 8874 tubes. Has all features commonly associated with ALPHA equipment. Price \$2596

FLESHER CORP, Topeka, Ks. Terminals (1980). 3 models RTTY made easy with these terminal units.

Model TR-128...A RTTY regenerative Baud rate conveverter.TTL compatible connections for direct hook up to the TU-170 terminal unit. Also adaptable to other units. 5 standard baud rates.xtal controlled, 128 character storage capacity with status meter to show buffer fill. Continuously variable character rate. Kit price \$179.95; wired \$239.95

Model TU-170..Terminal unit..Connect to your spkr, xmtr mic jack, and teletype machine and you are on the air.Auto start with threshold control and solid state relay.Stable audio freq. shift oscil. TTL compatible connections for aux.equipment. Hi level output for scope tuning.Kit price \$159.95 Wired price \$234.95

Model TU-300..Has push button controls along front of panel .300 baud rate, xtal controlled AFSK with downshift CW ID.Remote operation.Bar graph tuning and function indication.3 shifts (170 Hz standard-other shifts extra).TTL and RS232-C compatible I/O's.. Price \$ N/A.









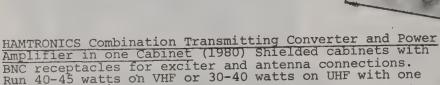




FDK AMERICA.. Import by Encomm, Inc(see Encomm) Trade name PALM .. Hand held transceivers.

Model Palm 11.. Puts 6 frequency simplex and repeater operation in a compact size, One xtal per channel.BNC antenna connector, phone jack, transmit simplex up or down. NiCad battery pack. (utput 1 watt max. 156MHz version.Price \$189

Model Palm 1V same as above but for 440M1/ Price \$249



Model XV2/LPA2-45(6M or 2M:specify) Kit \$199.95 or Wired & Tested \$299.95

Model XV4/LPA4-30(for UHF) Kit \$229.95 Wired \$349.95



HEATH HR-1680 HF Solid State Receiver (1980) SSB & CW 80 thru 10 meters, solid state, features a preselector, tuned dual-conversion front end for .05uv sensitivity. Has solid-state diode bandswitching, built in 100kHz calibrator, and seitchable wide/narrow active audio circuitry for SSB or CW operation. Sidetone injection adjustable from the front panel, receiver muting. Size 6.75x12.75x12"D. Price class (kit form) \$209.95

· * Palm H



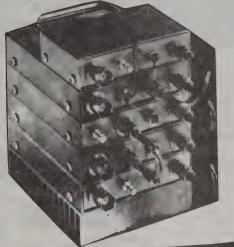
HEATH HX-1681 CW Transmitter (1980) OSK CW Transmitter mates well with the HR-1680 Receiver described above. mates well with the HR-1680 Receiver described above. Frequency coverage is 500 KHz in each of 4 bands 80 thru 15 meters and one 500 KHz segment of the 10 meter band (28.0 to 28.5MHz). The analog dial has 5kHz incremental markings. Rated power output is 100 watts on 80 thru 15 meters and 80 watts on 10. Provision for full break-in as well as delayed switching output for keying and external power amplifier. A pair of 6146s in the and external power amplifier. A pair of 6146s in the final amplifier. A built in T-R switch is used for receiver muting. Has a built in VFO, sidetone output with adjustable tone and level. Requires an external power supply such as the Heath PS-23. 6.75x12.75x12"D. Price class (kit form) \$240.



ICM (International Crystal Mfg. Co.) RF-1200 Amplifier (1980). 1100-1300 MHz range, for Satellite or Microwave use. A single state bipolar low-noise amplifier followed by a 2-stage output filter. Ion-implanted microwave transistors and microstripline construction. Die-cast case. Specifications claimed for it: Gain 15db, noise figure 2db, bandwidth 1db 50 MHz, tuning range 1100-1300MHz, power supply 13.5VDC 20Ma, Connectors SMA, Third order intercept +24DBM. Price class \$160. 5\frac{1}{2}x1-3/4x2-5/8"W.



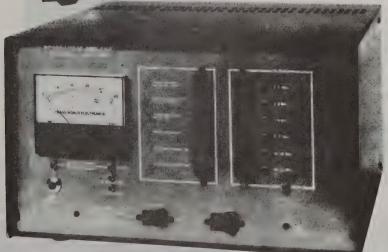
LUNAR Electronics 2M 4-40P Linearized Amplifier (1980) Can be used with any 1-5 watt radio. Into 4 watts in, 10 to 40 watts out. Linearized so compatible with SSB. Has preamp for receiver to increase power and clarity of incoming signals. Amplifier and pre-amp functions independently controllable. Remote control capability. Has regulated voltage output. Turns a 1-4 watt transceiver into a higher power base or mobile station. Heat sink with radiating heat fins.



LUNAR Electronics 220/TV Transverter (1980) Connects between a 2 meter transceiver and a 220mHz antenna. Operates 13.5v DC. Linearized for all modes: SSB,FM,SSTV,RTTY on 220mHz. Also has automatic T-R functions, either RF senses or hard keyed in the repat mode the lmHz offset adds to the 600kHz in your 2 meter radio to give you the 1.6mHz required on 220mHz. Specifications: Rx N. F.: 2.5dB; Rx conversion gain: 25dB nom.; RF pwr out: 10w nom. (CW & PEP). 2 meter drive: 10w nom.



MAGNUS METRON Al000 Base Station Amplifier (1980) All solid state linear amplifier, no tuning or adjustment over 160,80,40,20 and 15 meters, built in 115/230VAC power supply. Switch from one band to another instantly. Heatsink convection cooled with additional forcedair cooling thermostatically controlled. Power output 600w PEP typical. Harmonics -50dB all amateur bands. Drive level 60w 50 ohms. 8 power transistors of latest stripline RF linear devices; rated for operation at infinite VSWR. Price



MAGNUS METRON A2000 Base Station (1980) A 2000 watt solid state linear amplifier. No tuning or adjustment over 160,80,40,20 and 15 meters; built in 115/230VAC P. Supply; switch from one band to another instantly. Drive level 60w 50 ohms. Power output 1000w PEP. Easily interfaced either local or full remote control. 172x11x17", 103 lbs. \$3145.



MIRAGE B23 2 Meter HT Amplifier (1980) All mode SSB-FM-CW amplifier. 2 watts in gives 30 watts out. 100mw to 5 w. in put. Price class \$89.95



MIRAGE 2 Meter All Mode Amplifiers (1980). A Series similar to the B-108 (shown). Features include Solid state, built in receive preamplifer, 144-148mHz, 13.6V DC operation on SSB-CW-FM. Linear for FM, CW and SSB. Switchable preamplifier provides 10dB gain/2.5dB N. F. External or automatic internal relay keying w/ad-justable delay. Optional RC-1 Remote control \$24.95

B1016: 10w. in = 160w. out, 2w.in=95w. out. \$279.95 B1060: 5 to 15w. in = 160w. out; 1 to 2w. in = 30-60w. out. Overtemp protection. $5\frac{1}{2}x3x12$ "D. \$279.95 B3016: 30w. in = 160w. out; Overtemp protection. \$240.



M&M RF Distributors for the SS-105D HF/SSB 5 Band Transceiver (1980). Solid state, multi-mode USB, LSB, CW and FM, covers 80,40,20,15 and 10m bands, includes separate transceiver input and output connections. Power output 100 watts. 7x5x10-3/4"D. Weight 6.6 lbs. Price class for the SS-105D \$600. SS-105S (lower power 10 watts output model) \$500. Accessories available include Noise Blanker, 500Hz CW filter, FM, RX and TX modules, clip-on rechargable battery pack.

Mircocraft Corp, Thiensville, Wisconsin. RTTY Equipment (1981).

Model RRK..RTTY reader.Decodes RTTY signals directly from receivers loudspeaker.Completly solid state.Built-inactive' mark and space filters with tuning LED's for 170,425,850Hz FSK. Copies 60,67,75,100 WPM Baudot and 100 WPM ASCII. Converts RTTY signals into alphanumeric symbols on an eight character moving LED readout. Price \$269.95 assembled. Also available as a kit at \$189.95



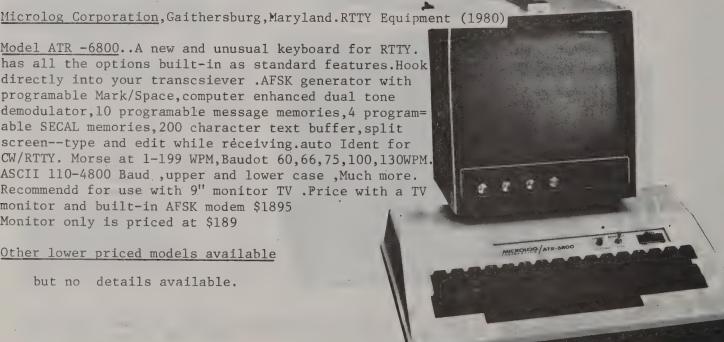
Model MAK-K.. A CW keyboard. Transmits Morse code, built-in 16 character buffer, internal speaker and side tone. All solid stateReed relay eliminates many keying problems. Speed range 5 to 45 WPM. Ideal for use with the above readerRRK. Unit available assembled at \$205.95. As a kit \$159.95

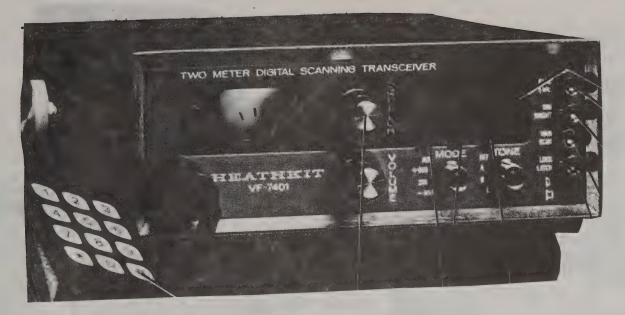


Model ATR -6800... A new and unusual keyboard for RTTY. has all the options built-in as standard features. Hook directly into your transcsiever .AFSK generator with programable Mark/Space, computer enhanced dual tone demodulator, 10 programable message memories, 4 program= able SECAL memories, 200 character text buffer, split screen--type and edit while receiving auto Ident for CW/RTTY. Morse at 1-199 WPM, Baudot 60,66,75,100,130WPM. ASCII 110-4800 Baud ,upper and lower case ,Much more. Recommendd for use with 9" monitor TV . Price with a TV monitor and built-in AFSK modem \$1895 Monitor only is priced at \$189

Other lower priced models available

but no details available.





HEATHKIT VF-7401 2-Meter FM Digital Scanning Transceiver (1980) Adjustable, 15-watt solid state narrow-band FM Transceiver. Fully synthesized digital circuitry, full band doverage without crystals. 1 MHz bandwidth scanning, Scan lock, dual-gate MOSFET front end for sensitivity and selectivity, squelch control also controls scanner sensitivity to stop on strong signals, skip weak ones if desired, a 100kHz Selector button to control the tuning in 100kHz increments, a 1 MHz button lets you select any 1 MHz segment of the 2-meter band, a 10kHz Selector advances in 10kHz steps, a LED indicates the 5kHz position. Has a manual or scan selector switch. Operates 13.8VDC mobile or base with VFA-7401-AC Power Supply option. Chassis mounted power and external spkr plugs, S)-239 rear-panel antenna jack. Provides power for the optional Micoder II Mic/Auto Patch Encoder (shown in part) to let you phone through repeater with auto patch input. Lets operator "power up" on a pre-programmed frequency, such as a repeater frequency, of your choice. Comes in kit form with instructions.

HAL COMMUNICATIONS CORP, Urbana, III. (1982)
Manufacturers of terminal and demodulating items.
Trade name .. HAL. Prices not available or noted.

Model CT2100...A communications terminal.Handles 45-1200 Baud RTTY,1-100 WPM Morse,four internal RTTY demodulators,All 3 RTTY shifts(high or low tones)status indicator,auto TX/RX control.LED tuning indicators-plus-on screen tuning bar-plus Ext. scope connections,audio monitor for either input or output signals, and much more. \$845

Model KB2100.. Keyboard, normally used with CT2100 Send ASCII, Baudot, and Morse, CW 3 to 40 WPM. In combo with a video monitor makes a complete RTTY send and receive station control unit. Price \$175

ModelST5000, Demodulator. Internal loop supply, Internal AFSK generator with CW ID tone, Internal tuning indicator, TTY machine compatability, RS-232 type data interface, high or low tones. Reverse switch, active discriminator. Price \$225

Model ST6000 Demodulator..Has all of the features of the ST5000 plus the following: Mark hold, antispace, auto threshold control, decision threshold hysteresis, keyboard operated switch, MIL-188 and CMOS data interface, active input bandpass filter three shifts (170-425-850) Price \$595







Model CWR-685A, Portable telereader. This is the smallest complete reader on the market. Features: Baudot, Morse, ASCII, built in RTTY demodu; ator, high or low tones, built-in 5"green CRT, 4 page display. connects to external keyboard. Runs on 12 v.d.c.

Model CWR-6850. A combination of the CWR685A with a keyboard gives the smallest telereader and CW terminal available, complete with a CRT display. Features - send and receive ASCII, Baudot, and Morse code, built-in RTTY and Morse demodulators, RTTY speeds of 45,50,57,74,110,300 Baud. High or low tones. four page video screen display, 6 programable HERE IS messages, pretype up to 15 lines of text. Power 12 VDC@1.7 Amp. Price \$995



HENRY RADIO, Los Angeles, Ca. Trade name-TEMPO (1980 thru 1982)

Tempo is a family of hand held transceivers, batt operated.synthesized to provide max coverage, with exceptional reliability. Covers 440 to 449.995 MHz. Channel spacing is 25 KHz min, touch button pad on front of unit, easy to read. Basic sensitivity all models is better than 0.5uV for 20 dB quieting. Ant.impedance - 50 ohms. Rubber flex ant. NiCad batteries standard equipment. Nominal output varies by model.

Tempo S-1..has 12 buttons, 3 watts. Price \$350

Tempo S-2..offers 1000 channels ,has all the engineering features of the Tempo S-1 and S-5. Covers 220 MHz band.Price with touch tone pad installed \$399





HENRY RADIO Tempo S-4 440MHz Synthesized Hand-Held Transceiver (1980) Fully synthesized, 440 to 449.995MHz, 25kHz channel spacing. Power output 3 watts or 1 watt selectable power. Receiver sensitivity better than .5uV for 20dB of quieting. Ogerates on 9.6VDC. Antenna impedance 50 ohms. Repeater offset is ±5 KHz. Supplied with Rubber flex antenna, 450ma Nicad battery pack, charger and earphone. Price without touch tone pad \$349. With 12 button pad(shown) \$399; with 16 button pad \$419. S-40 matching 40 watt output 13.8VDC power amplifier option \$149. Leather case \$20.

HENRY RADIO Tempo S-5 2-Meter Synthesized Hand-Held Transceiver (1980) Switchable 5 watt or I watt output, 144 to 148MHz, channel spacing 5kHz transmit simplex or ±600kHz for repeater, operates 9.6VDC, antenna impedance 50 ohms, sensitivity better than .5 for 20db quieting, 1.6x2.5x6.7", supplied with telescoping whip antenna, nicad battery pack, charger. Has external mic capability. Price \$299, or with Touch Tone pad (shown) \$339. Matching 30 watt output 13.8V DC power amplifier S-30 \$89, matching 80w.output S-80 \$149.

Note: These units may be used as drivers for special booster amps which are available for 135 to 175 MHz. 30 to 130 watts.

Tempo S-15...A good performing hand held transceiver.

Does not have a push button tone pad.Covers range
of 140 to 150 MHz,3 channel memory, one channel
permits non standard repeater offsets.BNC antenna
connector and flex antenna.Electrically tuned
stages (receiving sensitivity and output power are
constant over the entire operating range)
Basic price \$289..With touch tone pad \$319.

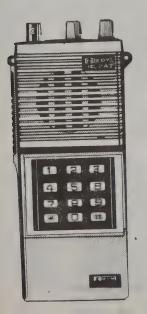
HENRY Model 1KD-5 high power linear amplifier .. Rated 1200 watts PEP input (700 watts PEP output). Covers 80,40,20 and 15 meter bands. 10 meters not included in this model.Uses Eimac 3-500Z tube. Has ALC circuit, DC relay system.Relative power meter.Pi-L plate circuit,Pi cathode input circuit. A.c.operated... Price \$695

HENRY Model 2KD-5 high power linear amplifier.. Circuit feature similar to 1KD-5 but 2000 watt PEP inpu (1200 watts PEP output). Uses two Eimac 3-500Z tubes in grounded grid circuit.tank coils are silver plated for better efficiency and attenuation of unwanted harmonics, Price \$945

ICOM AMERICA, INCORPORATED, Bellview, Wa.(1980-82)
Trade name - ICOM

The following models for year 1980....

Model IC-2A. Hand held transceiver for the 2 meter band. Synthesized frequencies between 144 to 147.9MHz. simplex and duplex oe 600 KHz offsets. All knobs at top.1.5 watt output.Rcvr specs: .2uv/20dB. Built in spkrand mic,flex ant with BNC connection Uses Alkaline bats or Ni Cad pack. No touch pad. Price with Alk bats \$199.50 Price with NiCad Pack \$229.50 (See Jan 1981 QST for review)



Top View

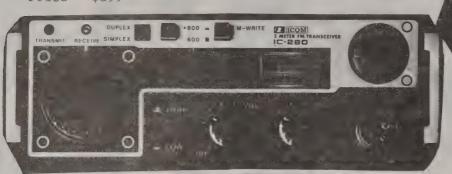


ICOM IC-2A/IC-2AT(with Touch Tone Pad) Synthesized 2 Meter Hand-Held Transceiver (1981) Covers 144.000 thru 149.995mHz in 800 synthesized channels with selectable 1.5 or .15 watt output. Has separate built in speaker and condenser mic, but an optional 600-ohm dynamic mic can be used. Sensitivity is rated less than 0.4uV (0.2uV typical) for 20dB quieting. Slip-off bottom NiCad pak(3 sizes available. About the size of a dollar bill. Options include drop in desk charger, and leather case. Price of IC-2A with alkaline battery pack w/o batteries \$189.53; IC-2A w/Nicad pack and wall charger \$218.03. Price of IC-2AT w/Nicad pack, wall charger, and Touch Tone Pad \$237.03.



Model IC-22U

A high performance mobile unit covers 144-147.99 MHz.800 channels selectable in 5KHz steps.Remote push button control (touch tone optional).Rcvr has 5 helical resonators for outstanding selectivity.Continuous rated 10 watts. Patterned after ICOM 's successful IC-22S. Easy set up for CAP/MARS APC circuit for protection of finals. Price - \$299



Model IC-280..a high performance 2 meter band mobile or fixed station unit .Exceptionally compact. Microprocessor controlled frequencies, can store three frequencies, your choice, All controls on front panel, \$\frac{1}{2}600 \text{ KHz splits. Uses FET front end for excellent performance and good sensitivity.two filters in IF. Touch tone can be added (TT1215).25 watts output. Price \$455.. TT1215 price \$49



ICOM IC-251A 2 Meter Microprocessor Controlled Transceiver (1980). All mode transceiver including USB, ISB, CW, FM. Covers 143.8000 to 148.1999mHz in 100/lkHz steps on SSB/CW and 5/lkHz on FM. Microprocessor controlled, memory scan, 3 memories built in, programmable band scan, squelch on SSB, 600kc repeater offset built in, variable repeater split with the 2 built in VFO's. RF amplifier and mixer circuits use MOSFET's for excellent sensitivity, stability, and selectivity. 10W to lW output variable, built-in 13.8vdc/117VAC power supplies. Crystal filters having high shape factors for excellent selectivity. 4½x9-3/4x10½"D. With amplified hand microphone, price class \$699. Standard ±600kHz splits and pulse type noise blanker are included, also VOX and CW monitor.



ICOM IC-260A 2 Meter SSB/FM/CW Mobile Transceiver (1980) Microprocessor controlled. Covers 143.800 to 148.1999MHz in 100/lkHz steps on SSB/CW and 5/l KHz steps on FM. 7 digit LED readout. 1 or 10W output SSB/CW, variable 1 to 10W, FM. 3 memories, memory scan and programmable band scan. 600kHz offsets plus variable repeater split with two built-in VFOs Operates 13.8VDC @3.5A. 7.3x2.5x8.2"D. Full digital readout to 100 Hz. Switchable AGC, RIT, FETs, excellent sensitivity and selectivity with crystal filters, band-pass transmitter filter. Price \$489 includes amplified hand mic. and mobile mount.



ICOM IC-551D 6Meter Transceiver (1981). Similar to the previous IC-551D except higher output power of 80+ Watts, ideal for DX when sunspots are working. Has the same no-backlash, no delay dual VFO light chopper system coupled to the microprocess for split frequency as well as completely variable offsets. 3 memories are provided for programmed beacon watching which can be scanned and programmed to stop on the first one heard. Pass band tuning and Vox are also included. Freq. coverage 50-54mHz, operates 13.8VDC on USB/LSB, CW, AM, FM modes. Sensitivity less than .5uv for 10dB S+N/N; selectivity less than 2.2kHz at -60dB on SSB/CW/AM. llmmx24lmmx31lmm(D). Price \$669.

Model IC-701..A fixed station transceiver Covers all ham bands from 160 to 10 meters. New space technology - uses 128 transistors, 23 FET's,56 IC's and 265 diodes to obtain outstanding performance.PLL circuit controls both send and receive.Standard equipment incl. digital readout,wide and narrow bandwidths for cw,speech processor,bandpass tuning,and RTTY..VSWR meter. Second VFO built in for offset TX/RX.USB/LSB SSB TX/RX. XMTR section output 200 watts PEP SSBand CW .Emission modes A1,A3,RTTY. Requires separate power supply IC-701. Price \$1600. Supply Est\$149 (See review in April 1979 QST)





ICOM IC-720 HF All-Band Transceiver (1980). Digital Transceiver with .1 to 30 MHz general coverage receiver. Covers all 9 HF Ham bands with at least 100kHz on each side. Broad band tuned & all solid state including finals. Output power SSB/CW variable 10 to 100w. continuous on all bands (10 to 40w - AM). 6 digit LED readout with 100 or 10 Hz resolution. Dual built in Digital VFO's. AM, CW, SSB & RTTY filters plus narrow CW option. Passband tuning. RIT, VOX, semi break-in CW, metered ALC, fast/slow AGC, noise blanker, WWV, speech processor & full metering. Wired for computer & remote control. Built in DC supply. With mic. Requires 13.5VDC/20A. Receiver sensitivity less than 0.25uV. Price class \$1149.

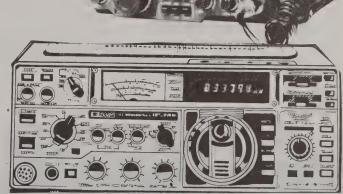
1981

Model IC-451A..432 MHz base station. Has 3 memories with memory scan, programable band scan, squelch on SSB, silent receive when no signal present, variable repeater split capability, multi function/multi mode. Available in two versions -430-439.999 Or 440-449.999MHz. Price \$899



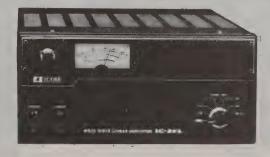
Model IC-560..A 6 meter mobile unit.Covers 50-53.999 MHz. SSB, CW, FM. Three memories, memory scan, programable band scan, squelch on SSB. Variable repeater splits with two VFO's..Price \$489

Model IC-740. A new approach to transceivers. 11 solid state, all ham bands 160-10 meters, 100 watts output. Features - variable noise blanker, and AGC with off position, IF shift and passband tuning, automatic SSB mode selection notch filter. 8 memories, SWR meter, XIT speech compressor. 12 volts dc operation, a.c. power supply optional. Digital readouts. Price \$1099



Model IC-2KL.. 500 watts output linear amplifier (PEP) SSB/CW/RTTY. Full metering.Extremely compact. Matches styling etc with the popular IC701 and 720 units.A.c 115/220VAC. Automatic band switching (when used with

Model IC-AT-500.. Automatic 9 band antenna tuner.All bands including WARC and new 10 and 18MHz bands. All solid state broad band tuning



NOTE: The following group of models have the same general appearances but different features which are detailed by model listing info..

Model 25A.. A 2 meter mobile unit of extremely small size. FM transceiver.5 memories to store your favorite frequencies Priority channel.25 watts high power with a low 1 watt bat. saving output. Touch tone mic is standard to work your favor ite autopatch repeater. Full band scan/programable scan with automatic resume after preset delay.2 VFO's with data transfer standard,2 tuning rates-5KHz or 15KHz. .Price \$349

 $\underline{\text{Model IC-45A.}}$. Same as IC-25A but covers the range of $\underline{\text{440-449.995 MHz}}$ Price \$399

Model IC-290H..Similar to IC-25A. Has improved LED readout. Covers range of 143.8-148.199 MHz FM/SSB/CW, 25 watts high output,1 watt low power squelch in all modes.Price \$549

Model IC-490A. Same features as IC-290H but covers frequency of 430.0-439.999 MHz and has only 10 watt max output.

Price \$649



Model IC-730..A portable/mobile transceiver. 8 bands Tx/Rx 80 - 10 meters bradbanded. IF shift standard/passband tuning (optional). All solid state,200 watt PEP input .2 VFO's built in standard, Memories-one frequency per band. Can be used with automatic bandswitching mobile antenna .IC-AHI can also be used with IC-720A, IC-730, or IC-701. Price \$829



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Model IC-740A.. An improved version of the IC-740 (see above (1980 listing) Price Estimated \$1100



JRC NRD-515 General Coverage Receiver (1980). 100kHz to 30mHz in 100Hz steps, all modes: AM/USB/LSB/CW/RTTY. PLL Digital VFO: the synthesizer is phase-locked with a 10mHz crystal reference and combined with a photo-type rotary kHz/Hz encoder. Up-conversion superhet circuit, 2-speed switchable AGC, pass-band tuning switchable from 6kHz, 2.4kHz, .6kHz and AUX with .3kHz option, 24-channel memory option available. All solid state with all accessory circuits on rear panel. Price class \$1490. Memory \$290. speaker \$47.50; 600Hz filter \$50; 300Hz \$70.

INFO-TECH INCORPORATED, St Louis, Mo (1980)

Model M-200, Demodulator available in choice of video outputs. Converts Morse, Morse, RTTY, ASCII to video. Morse 6-60 WPM with automatic speed and wordspace.RTTY - 4 speeds, 3 shifts, unshift on space select, automatic aux. Baudot loop output, tuning meter, auto speed readout. ASCII - 110 Baud with builtin TU.

Price with 32 character video output ... \$500 Price with 72 character video output ... \$525

Model M-200-FA unit with more features than the M200 above.. Converts Morse and RTTY (Baudot and ASCII) to video, and serial Baudot or ASCII for hard copy. Morse 6-55 WPM standard, auto speed tracking and word space adjustment, Auto CR/LF, auto threshold control, solid state tuning "meter" 3 fixed shifts plus one selectable, Printer outputs for all models xtal controlled baud rate generator.RS232.TTL and isolated loop out. 4 user selectable video display formats.A.C. power built-in. .Price \$575

See May 1980 QST for more info.





IRL, Columbus, Ohio RTTY Demodulators.. (1980)

Model FSK-500..Demodulator.Designed for computer interface, but is a fine stand alone unit. Easy computer interface with RS232 or 5 volt logic signals. Three shift coverage without straddle tuning. Selectable bandwidths give optimal Baudot or110 Baud ASCII copy. Autostart, 3 shift AFSK keyer plus narrow shift CW ID..Price \$197.00

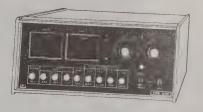
Model FSK-1000..Demodulator.All the features of FSK-500 plus : Built in 170 volt loop supply, Selectable band widths of 55 and 100 Hz. (copies 110 Baud ASCII), Ultrasharp active filters and decision level correction circuits. Keyboard activated switch for breakin operation. Meters and LED's.. Price \$449

Note: See June 1980 QST for writeup on this model.



F\$K-500

FSK-1000 T.M.



JAPAN RADIO COMPANY, Tokyo, Japan. Trade Name - NRD (1981) See Nov. 1981 OST..

Receiver, NRD-515 SPECIFICATIONS Receiving frequency range:

Sensitivity (S/N 10dB): 1.6 to 30MHz 100 to 1600kHz Selectivity:

Stability: Power requirements:

Dimensions and Weight: Preset memory (Option): Frequency stability:

Image rejection ratio; IF rejection ratio: Input impedance: AF outputs; Speaker output; Record/line output:

100kHz to 30MHz continuous (30 bands) USB/LSB/CW/RTTY/AM Double superheterodyne
First IF: 70.455MHz
CW/SSB AM
0.5 μV 2 μV
6 μV
6 kHz/2.4kHz/0.6kHz/0.3kHz
(*Option) * * 6KHz/2 4KHz/U 0KHz/0 0K

24ch. Less than 50Hz per hour after warming up. 70d8 or more 70dB or more 50 to 75 ohms, unbalanced

1W or more (4 ohms) 1mW or more (600 ohms)



JAPAN RADIO COMPANY



SPECIFICATIONS

Rated output power: 100W NSD-515 (50W 28MHz band)
Frequency rangs: 1.8MHz-2.0MHz/3.5MHz-4.0MHz/
7.0MHz-7.3MHz/14.0MHz-14.35MHz/
21.0MHz-2.1.45MHz/28.0MHz-29.0MHz/
29.0MHz-29.7MHz/Optional new bands approved by WARC 79.0MHz/10.15MHz/18.068MHz10.1MHz-10.15MHz/18.068MHz18.168MHz/24.89MHz/24.99MHz/
A3J (USB/LSB) A1 (CW) F1 (RTTY)

KANTRONICS (1980) This company makes a line of items slanted for the cw operator. Names, not model numbers

are used, as follows:

FIELD DAY...An LED indicating copy unit for code and RTTY. Copies Morse 3 to 80 words per minute, 10 character display, RTTY copy to 100 wpm, ASCII 110 and 300 wpm Baud. 24 hour clock. Price class \$450...

SIGNAL ENFORCER. This is a dual filter variable bandwidth audio filter for reducing interference. Works well. with RTTY and ASCII signals. Adjustable frequency and band width.A.c operated. Price class \$190...

FREDOM VFO.. This compact VFO is only 3x5x7". Covers bands - 3650 to 3750 MHz, 7000to 7200 Mhz, 21000 MHz. Has sufficient output to drive most older tube type Price class \$65.... oscillators.







KDK FM2025A Microcomputer Controlled 2 Meter FM Transceiver (1980) 144.000 to 148.990 in 10kHz steps. Ten channel memory with scan, two speed VFO-style tuning, LED digital readout, full band scan, programmable scan limits. All frequency control is by a microcomputer including memory and scanning. 25 Watts output with a low power function for short range or battery operation adjustable from 3 to 25 watts. Programmable non-standard splits, PL Tone Oscilator, Varactor tuning of receiver front end, true FM, multi-purpose meter. Receiver sensitivity better than 0.28uV for 20dB quieting. 65x186x252mm, includes mobile mount bracket, 600 ohm dynamic mic, and DC power cord. Price unknown.

KDK-FM 2016A.. 2 meter FM mobile transceiver.CMOS PL synthesized- no xtals to buy. 5 KHz steps from 144 to 149 MHz. 4 channel RAM IC memory with scan and auto transmit; multiple frequency offsets; RIT; RF ATT. 15 pole filter; monolithic filter.LED readouts. Option touch tone mic. Price \$369

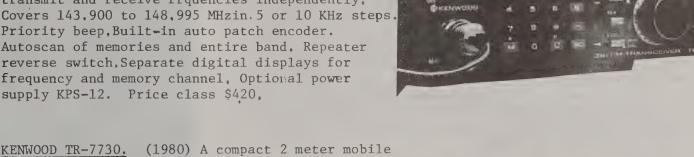




KDK .. FM 2030 (1980)..2 meter FM mobile transceiver. Uses 4 bit microprocessor chip to obtain maximum flexibility. 25 watts output,5 watts low power. covers 143.005 to 148.995 MHz. Double superhtrodyne. Uses variable reactance modulation with +/- 5hz deviation.LED shows either transmit or receive frequency. Tone pad mic.. Price class - Introductory at \$309...

TRIO-KENWOOD COMMUNICATIONS, Compton, California. Trade Name - KENWOOD

KENWOOD TR-7850 (1980). A 40 watt 2 meter FM mobile transceiver. A 25 watt version TR-7800 is also available. Has 15 multifunction memory channels, selectable with a rotary control. M14 memorizes transmit and receive frquencies independently, Covers 143,900 to 148,995 MHzin.5 or 10 KHz steps. Priority beep, Built-in auto patch encoder. Autoscan of memories and entire band, Repeater reverse switch. Separate digital displays for frequency and memory channel. Optional power



transceiver. 25 watt output. covers 143.900 to 148.995 MHz in 5 or 10 KHz steps. 5 memories for simplex or repeater modes. Memory or band scans automatically.UP/Down manual scan from mic.Four digit LED display.... Model TR -8400 has same features but covers 70 cm band with 10 watt out. Optional accessories MC-46 16 button UP/DOWN autopatch (DTMF) mic..KPS-7 power supply... Price class \$329.95

KENWOOD TS -830S (1981) Has full coverage of all abnds including the new 10,18, and 24 MHz bands, WWV for calibration. Has wide receiver dynamic range thru use of FET's and MOSFET's, VBT, notch filter in 455 kHz IF also IF shift passband tuning. Digital display with hold switch. Runs 220 watts SSB, 180 watts CW all bands. Speech processor, monitor to check audio qualityon SSB.RIT and XIT tuning. Price class \$930.. Options VFO-230 digital VFO. Various filters for band widths for SSB, CW. AT-230 Antenna tuner with SWR, power meter.

Price \$ 949



KENWOOD TS-120S.HF SSB Transceiver. (1980) Seems to be especially designed for mobile operation but can be used on a.c. with the power supply PS-30 (option). Does not have 160 meters.Covers 80,40 15, and 10 meter bandsusing SSB or CW . SSB out put is 200 watts PEP. Has a unique PLL ciruitry for exceptional stability and flexibility of operation. Calibrates to WWV. Digital display shows actual frequency.IF shift tuning to eliminate QRM. Noise blanker. Features an automatic fan turn on when temperature reaches a certain point. Protection for output transisters.Also has RIT, VOX, no tuning needed.Often refered to as the big little rig" accepts VFO-120 for remote operation. Price class \$700...

KENWOOD TS-130S/V. A high frequency transceiver, (1980-81). S version has 200 watt PEP. V version has 25 watta PEP. Covers 80 to 10 meter bands including the new 10,18 and 24 MHz bands. Receives WWV for calibrations. Speach processor wide or narrow folters for Cw and SSB (options).LSB,USB selection digital display,IF shift pass band tuning.Noise blsnker.Optional power supply PS-30,filters for 500Hz,270 Hz snd 1.8kHz band widths.Price class \$759.95 for S version, \$599.95 for V version.

KENWOOD TS-930S (1980-1981) A new high performance transceiver with superior features. Exceptional dynamic range, automatic antenna tuner, QSK, dual NB 2 VFO's and a general coverage receiver. Covers all bands 160 thru 10 meters includinf the new bands. Solid state amplifier operates on 28 volts rated at 250 watts on SSB, CW, and FSK. Final amplifier has protective circuits with cooling fan. Uses CMOS logic IC plus reed for smooth breakin. Dual VFO's also has RIT. * memory channels, noise blanker, SSB IF slope tuning for interference rejection. CW VBT and pitch controls. IF notch filter. Tuneable audio filter. Digital display, RF speech processor. Built-in a.c. power supply. Price class \$1599

KENWOOD TR 9000 Series of models, variations of a design common to all but with difference features as to operation. Performance in two meter bands primarily for mobile uses.

TR-9000 operates on FM/SSB/CW. has ULB,LSB.Two digital VFO's with selectable tuning steps of 100Hz,5kHz,10kHz. Digital display. Covers 143,9000 -148.999 MHz. Band scan SSB/CW search. 5memories..four for simplex or !600 kHz repeater offsets.Up/Down microphone.Noise blanker.RIT for SSB and CW Optional accessories..PS-20 Power supply, speaker etc. Price class.. \$500. PS-20..\$75 (1980).

TR-9130 (1981)..Similar to TR-9000 in general feature but has 16 key autopatch UP/DOWN microphone(MC-46) or a basic UP/DOWN mic, your choice. 25 watts output on all modes FM/SSB/CW. 6 memories may be simplex or any mode, memory scan, band scan. Dual digital VFO's Squelch cicuit repeater reverse switch, tone, CW semi breakin, Covers 143.9 to 148.999 MHz. Options- fixed station power supply KPS-7. Price class \$530

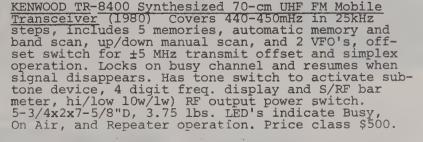




KENWOOD TR-7800 (1981) Two meter mobile transceiver.

15 multifunction memory channels selected via
a rotary switch, one memory for nonstandard offset
or for priority !600 kHz. Covers 143.900 to
148.995 MHz in 5 or 10 kHz steps. Autopatch DTMF
encoder.Repeater reverse switch. Power output
25 or 5 watts - selectable. Digital readout and
LED S/RF bar meter. Manual scan UP/DOWN mic is
standard. Price class \$369.95 Optional power
supply is KPS-7 for fixed station operation.
Price \$369







KENWOOD TS-130S HF SSB/CW Mobile/Fixed Station Transceiver (1980) Features include 80-10 meter coverage including the new 10, 18, and 24mHz bands. Receives WWV. 200w PEP(160w DC input on 80-15 meters, and 160w PEP/140w DC on 12 and 10 meters. Built in speech processor, narrow/wide filter selection on both CW(500Hz or 270Hz) and SSB (1.8kHz) with optional filters. Automatic selection of sideband mode, built in digital display, RF attenuator, IF shift passband tuning, noise blanker. \$759/95. PS-30 base-station power supply option \$139.

 $\underline{\text{TS-130V}}$ Same as TS-130S except runs 25w PEP/20w DC on all bands. Price class \$599.95.

KENWOOD TR-9500 Transceiver (1981). A 70 Cm version of TR-9130. Covers 430 to 440 MHz in steps of 100 Hz, 1 kHz, 5 kHz, 25 kHz, or 1 MHz. High output 10 watts, 1ow 1 watt. Price class \$530....

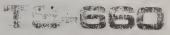
See TR-9130 Illustration

KENWOOD TR-7850. 2 Meter FM transceiver. (1981) A 40 watt output model. Has 15 multifunction memory channels, selectable, Covers 143.900 to 148.995 in switchable steps of 5 or 10 kHz steps. Built in auto patch touch pad, auto scan, plus up/down manual scan. Digital readouts. LED's, For a.c. operation uses power supply KPS-12. Price class \$420....

Not Illustrated. See <u>TR 7800</u>

KENWOOD TS-660 . A quad band (4) transceiver for the 6,10, 12 and 15 meter bands. Features FM/SSB (USB)/CW/and AM operation. (1981)Has 10 Hz step digital VFO,2 VFO's builtin. 5 channel memory also scans. Up/down control on mic. IF shift circuit built in. Digital display shows Tx/Rx frequencies. RIT control.Use Ps-20 for a.c. Price class \$700





The TS-660 "QUAD BANDER" covers 6, 10, 12, 15 meters.



KENWOOD DFC230. Digital frequency controller with up/down mic, and four memories (1981) An optional VFO unit to provide frequency changes in 20 Hz steps up or down by remote control. Can be used with Kenwood models TS-120S,TS-530S, and TS-830S,Digital display.Price \$279.

KLM , Morgan Hill, California.. Trade name KLM.

KLM UHF/VHF Power amplifiers. A family of compact amplifiers for boosting the power outputs of smaller units. Small in size, they yeild the outputs shown with the drive needed for rated output. See chart for item ratings. (1980-1981)

UHF/VHF POWER AMPLIFIERS										
Model	Freq.	In	Out	List						
PA2-25B	2m, FM	1-4w	25w	\$ 92.95						
PA4-80BL	2m FM/SSB	1-4w	80w	229.95						
PA4-160BL	2m FM/SSB	1-4w	160w	299.95						
PA15-40BL	2m FM/SSB	5-15w	40w	129.95						
PA15-80BL	2m FM/SSB	5-15w	80w	199.95						
PA15-160BL	2m FM/SSB	5-15w	160w	299.95						
PA45-160BL	2m FM/SSB	15-45	160w	259.95						
PA4-70BC	220 FM	1-4w	70w							
PA15-60BC	220 FM	5-15w	60w	229.95						
PA15-120BC	220 FM	5-15w		199.95						
PA45-120BC	220 FM		120w	299.95						
PA4-40CL		15-45	120w	259.95						
PA15-40CL	450 FM/SSB	1-4w	40w	229 95						
	450 FM/SSR	5-15w	40w	189 95						
PA15 110Ct	450 FM (14	5 15W	110%	anr. 45						



KLM PA10-170BL Power Amplifier (1980). Improved model now with FM/SSB switch. Features of this and other KLM amplifiers: Massive cutom heatsink, "on the board" thermal sensor that bypasses the amplifier at the approach of unsafe temperatures (shown by a yellow LED on the front panel). After cooling, KLM amp jumps back into operation at full power, one year warranty that includes the output transistors.

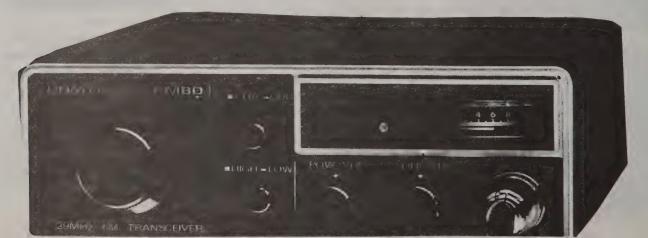
KLM MA-35BL Power Amplifier (1980). Operates 144-148mHz, power input approx. 3 watts; power output 35 watts. Has preamp for receive: 2.5 dB Noise Figure, 11 dB gain. Operates on 13.5v DC. Includes Nicad charger. Price class \$229.

KLM MA-25BL Power Amplifier similar except output 25 watts.



KLM/N & G Custom Matched MA-25B Amplifier for the Yaesu FT-207R (1980) KLM's integrated 25 watt power amplifier, 5 watt audio/PA amplifier, and a receive preamp in one complete package custom designed for N&G (Miami, Florida). Features include operation from 144-148mHz, power input 3 watts, power output 25 watts, 2.5db N.F. and 11db gain in the preamp for receive, FM mode. Operates on 13.5v DC. Audio/PA: 5 watts into an 8 ohm load. Shown with FT-207R in position. Price of amp. \$279.

Kona Com FM-80. 10 meter transceiver. Frequency synthesized for operation from 28.90 to 29.70 MHz in 10 KHz steps. Has 100 KHz repeater offset. LED readout, self contained speaker, S meter, mic, power leads. (1980) \$250.



MFJ Enterprises, Inc.Mississippi State, Ms. (1980-1981) This company makes a wide variety of devices for RTTY, and CW enhancement, send or receive. Only the most advertised items are listed here. Manufacturer has over 60 items.

Model 8044. A deluxe keyer based upon the use of the 8044 IC chip. Sends Iambic, automatic manual, or semi automatic, semi automatic bug operation provides automatic dots and dashes, or use a straight key.self completing dots and dashes.RF proof, all controls and adjustments from front panel. Operates from speeds of 8-50 WPM. Needs 3-12 volts d.c or 4 "C"cells. Price \$69.95



Model 484..A truly deluxe memory keyer. "The Grandmaster". A25 character memory plus a 100,75,50,or 25 character message (4096 bits total). Messages are repeatable, LED's show which memory is in use. Iambic operation with squeeze key, dot dash insertion. self completing. Speed control 8 to 50 WPM. Price \$139.95



RESETS MEMORY IN USE TO BEGINNING.

MEMORY SELECT: POSITIONS 1, 2, 3 ARE EACH SPLIT INTO MEMORY SECTIONS A, B, C, D (UP TO TWELVE 25 CHARACTER MESSAGES). SWITCH COMBINES A AND B. POSITION K GIVES YOU 100, 75, 50, OR 25 CHARACTERS BY PRESSING BUTTONS A, B, C, OR D.

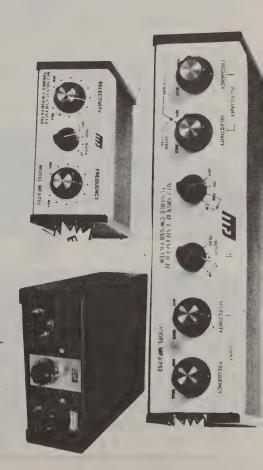
Model 751. A tunable SSB/CW filter.Adjust the bandwidth for best response, peak, notch, or lowpass with double tuned filter with steep selectivity skirt. Notch rejects QRM Lowpass removes hiss, splatter.Connects into phone jack. Operates from 110 VAC, or9-18volts dc.Price \$59.95

Model 752.. A dual tunable SSB/CW filter, a signal enhanser with numerous adjustment controls to provide maximum rejection of unwanted signals. Auxilliary filter lets you notch a signal to 70db, or peak a band width down to 40 Hz. Works from the phone plug of your receiver. A expanded version of the basic circuitry from Model 751.Operates from 110 VAC or 9 to 18 VDC. Price \$79.95

MURCH ELECTRONICS, INC. Franklin, Maine. (1981)

Model UT-2000B. A transmatch unit that will handle up to legal power levels. Continuous tuning from 10 to 160 meters. Front panel controls. Handles any and all types of antennas - dipoles, random wires, verticals, whips, beams, open wire lines. Built with built-in baluns, ceramic rotary inductors, uses No.8 wire. 4000 volt capacitors, built-in line sampler, no external bridge needed. Provides SWR 1 to 1 to the xmtr. Price \$218.50..

Other models with lesser features available from \$139.95 up.





NCG Co. Model NCG 15SB 15 Meter Mobile Transceiver (1980) For 15 meter QRP. Has active noise blanker, RF gain, CW switch, squelch, mic gain, digital freequency display, Hi/Lo power switch. Operates 13.8VDC positive or negative ground. Price unknown.

WM.NYE COMPANY, Belleview, Washington. (1980-1981) Trade Name - NYE VIKING.

Model SSK-1-K This Iambic keyer features unusual reliability thru the use of CMOS integrated circuitry. Includes an audio oscillator and speaker for monitoring, can be used for either positive or negative keying. has tune up switch position. Operates from 115 VAC or 9 VDCbat. Price \$105

Model SKM-001..A 1024 bit memory has been added to the SSK-1-K keyer to provide additional operating features from top mount controls. Choice of 4,256 bit memories, 2512 bit, or 1024 bit memories. Speed contro; from 5 to 50 WPM. Allows direct keying of xmtr positive or negative polarity. Price \$184.50

Model 250-0046-001. Automatic phone patch. FCC approved for direct connection to phone line. Has phone company approved circuitry to protect phone co equipment. Eliminates cost of phone company supplied coupling device. Model -001 Price \$45.50... Model 003 has built-in speaker Price \$55.50

Model Viking MBll..An antenna impedance matching network for maximum power, matches all antenna systems. Features 1/4" silver plated ribbon inductor, 7000 volt variable capacitor, 10,000 volt fixed capacitors, SWR meter, easy to read dials. Covers 1.6 to 30 MHz. Available with and without balun. W/O balun \$295..With balun \$325

OPTO ELECTRONICS, INC. Fort Lauderdale, Florida. (1980) This company specializes in frequency counters.

The manufacturer; ad is reproduced.



7010/7010.1 600 MHz 9 DIGITS



8010/8010.1 1 GHz 9 DIGITS



K-7000 KIT 550 MHz \$79.95

MODEL	\$ RANGE PRICE 10Hz to	RANGE	LED DIGITS		SENSITIVITY 50 OHM INPUT HI-Z INPUT		GATE	RESOLUTION			TCXO TIME BASE		EXT	NI-CAD BATT	
		10Hz to		25-250 MHz		450 MHz-1GHz		TIMES	12 MHz	80 MHz	MAX FREQ	20'-40'C	FREQ.	INPUT	PACK .
R=7000 kit	79.95	550 MHz	7	5-20 mV	10-30 mV	20-50 mV to 550 MHz	1-10 mV	(2).1,1 SEC	10 Hz	10 Hz	100 Hz 550 MHz	1.6 PPM	5.24288 MHz	NO	YES OPTION \$15.
7010 * 7010.1	145.00 225.00	600 MHz	9	5-20 mV	10-30 mV	20-40 mV to 600 MHz	1-10 mV	(3).1,1,10 SEC	.1Hz	1 Hz	10 Hz 600 MHz	1 PPM 0.1 PPM	10 MHz	YES OPTION \$25.	YES OPTION \$15.
8010 *8010,1	325.00 405.00	1 GHz	9	1-10 mV	5- 20mV	10-35 mV	1-10 mV	(8).01-20 SEC	.1 Hz	1 Ḥz	10 Hz 1 GHz	1 PPM 0.1 PPM	10 MHz	YES STD	YES OPTION : \$39.

PALAMAR ENGINEERS, Escondido, California (1980)
This company specializes in electronic keys (says their ad),

No model number - described as "Special Radio Model", the worlds greatest sending device. This is an electronic IC Keyer. Sends manual, semi-automatic, fully automatic, Dot/dash memory, squeeze and Iambic, built-in speaker, side tone, speed adjust. Battery operated. Keys any transmitter. Price \$117.50

RF POWER LABS, INC, Woodinville, Washington. (1981)
Manufactures a line of booster amplifiers for HF uses.

Model V350. (Illustrated).400 watts output at 144-148MHz. FCC type accepted.100% solid state, fan cooled. Price \$1085

Model V360...Handles up to 700 watts PEP on 6 meters withouly 2 watts drive for 500 watts output.Similar in appearance and circuit features to V350. List price \$1085

Model A1000. Up to 2 KW input ,covers frequency range of 160 to 15 meters.Price\$1395 (See QST September 1981)

ROBOT RESEARCH, INC. San Diego, California (1980)
Trade name - ROBOT. Terminal equipment for RTTY and SSTV.

Model 800. Terminal keyboard.Baudot, ASCII, Morse, SSTV .Has built-in circuitry that eliminates requiring added equipment in order to perform all of the desireable functions.Not just a keyboard but an integrated mode terminal unit.In combination with the monitor TV it becomes a complete send/receive terminal control. Connects directly into your station equipment, all cables and connectors provided.Price\$845 incls terminal but not the monitor (For more details see QST April 1980)

Model 400 Scan Converter.. Just plug this converter into your existing station and to your home TV set, adaptor kit included and you are ready to receive SSTV pictures. Adding a CCTV camera make up a complete Xmting and Rcving station. All controls front mounted. Price \$795

ROCKWELL INTERNATIONAL. Maker of Collins label...

Collins Model KWM-380 HF transceiver (1980). A

commercial version based upon a militarty design of
circuitry. Power output into a 50 ohm line nominal
is 100 watts PEP from 1.6 to 30 MHz. In CW or RTTY
duty cycle is 50%, key down 15 minutes max. Duty
cycle can be increased by addition of optional blower
kit. Receiver tunable in 10Hz steps from 2.0-30 MHz.
Transmits on all amateur bands, CW, SSB, RTTY, select=
able upper/lower side bands. Has exceptional figures
for unwanted signal suppression, low distortion.
Image rejection better than 60 dB. Mic input is low
impedance 600 Hz unbalanced. Audio output 31/2 watts.
List price \$6600. Mic not included.







SIGNAL ONE CORP. Phoenix, Arizona (1980) Mfr of Military speced electronics.

Model CX-11A..A synthesized frequency developed transceiver covering 1.8 to 30 MHz in full 1 MHz bands, plus 4 additional 1 MHz bands. Two PTO's dual receiving, transceive on either, or split operation. Built-in power supply. T/R switching, QSK, full breakin CW, PTT, or fast attack VOX. Rcvr has dual matched 2.4KHz 8 pole xtal filters for max selectivity. Two quad JFET mixers. IF shift adjustable, notch filter. Power output - 150 watts CW/PEP all bands, all modes., built-in CW keyer. Price \$5900





Model 1030. A fully synthesized HF transceiver (illustrated - similar to CX-11A) Same general specs but - extensive CMOS circuitry for improved spectoral purity and reduction of digital noise, Real time frequency acquisition - not multiplexed, allows 30 MHz jump in 10 milliseconds, synthesized band pass tuning, Collins/Rockwell mechanical filters for max selectivity, digital readouts, All controls on front panel. This is a military spec unit. Price \$4995 (intrductory.

(These units have been illustrated and described in detail in several issues of QST)

SPECTRUM COMMUNICATIONS, Norristown, Penna.. (1980) This company offers repeater equipment in their ads.

Model SCR1000. An VHF FM repeater Operates on 2 meters or 220 MHz. Output 30 watts on 220, 70 watts on 2 mtr. Full metering, all controls on front. Rcvr sensitivity 0.3 uv/12 dB SINAD typ. 8 pole xtal filter plus 4 pole ceramic filter. .. Price not available

Model SCR 4000.. Same as Model 1000 but for 450 MHz



<u>SWAN ELECTRONICS</u>, Oceanside, California(Note - this company and name brands are common to Astro and Cubic labelled items, being a part of the family of companies. using the trade names of ASTRO - SWAN - CUBIC.)

Swan Model 100MX..A portable transceiver, can be used as a fixed or mobile unit because of its small size. Covers 80,40,20,15,and 10 Meters.Features noise blanker, VOX, preselection, CW side tone, RIT NB, built-in calibrator. 12 volt d.c operation.(optional a.c. unit available-XXR-Dial is calibrated in 1 KHz increments.. Price \$595 (100M is an earlier version.Same features. This model also listed as Astromodel 100 MX

Swan/Astro model 102BX..A HF 160-10 meter transceiver, Features dual PTO's,235 watts PEP and CW on all frequencies. IF band pass tuning, with LED position indicators, and full breakin, tunable notch filter,4 function meter, VOX,16 pole

IF filter.Price \$1195

Swan/Astro Model 150.. A new approach to a SSB transceiver featuring a "VRS"knob, and over 100,000 fully microprocessor-controlled freqs. which will cover all present bands plus any new ones in the future.Full 235 watts PEP ansd CW,all bands,CW breakin,narrow Xtal filter,standby memory PEP output meter. Available in two versions,Model 150 ic 80 thru 10 meters. Model 151 is 160-15 mtrs. Price \$925

Swan Model 350B. An 80 - 10 meter transceiver.300 watts PEP input on SSB,200 watts input CW. Built in power supply for a.c. 25 kHz calibrator,80/100Hz audio filter,CW side tone, Analog tuning. Price \$649

Swan Model 3500..Same as Model 350B but has digital readout with 6 digit LED's. Price \$749

Swan Model 1200 Z..A self contained booster amplifier having a 1 KW PEP output on SSB and 750 watts DC input on CW..Meter output indicator. Uses Two 572B tubes. Operate on all bands 80 thru 15 meters. Price \$499

Swan Model 1500Z. Similar to Model 1200Z, slightly larger in size, more power output. 1500 watts PEP SSB, puts nominal 750 watts to the antenna. Metering is selectable. Builtin powere supply. (Not illustrated) Price \$599

Swan Model Mark 11. The top of the line booster amlifier.

Same general features as the above models.200 watts PEP on SSB and 1000 watts dc for CW, including the 10 meter band. Fan cooled low nois blowers. This is a two piece unit. Price \$799

<u>SCIENTIFIC RADIO SYSTEMS SR-300 Series of</u> <u>High Frequency Solid State Transceivers</u>(1980)

All Solid State, 150 watts PEP/100 Watts average; continuous duty; 115/220VAC plus 12 or 24V DC operation. Rack or cabinet mount.

SR-315 FEATURES: Crystal controlled generation; 1.6 to 30 mHz; 20 channels; unrestricted channel frequencies.

SR-340 FEATURES: SYNCHAN(synthesized channellzed) generatrion; 1.6 to 30 MHz; 100 Hertz increments; 99 internally programmed channels; built in test diagnosis (BITE); Digital readout.



SR-380 FEATURES: Synthesized generation; 1.6 to 30 MHz; 100 Hertz imcrements; Full front panel selection; Digital readout; built in test diagnosis (BITE); 99 preprogrammed frequencies.



SPECTRUM COMMUNICATIONS "Professional Communications Line" PCL-250 Mobile Transceiver (1980) (NOTE: Seems to be similar to the SC-250 introduced in 1979). 25 watt output, covers 136-174 and 220-240MHz, 6 channels, 0.35uV sensitivity, 6 or 8 pole crystal filters, rugged 1/4" thick aluminum housing, beautiful audio on Transmit and Receive is claimed for it, and a reasonable price is also claimed by the mfg.



SPECTRUM COMMUNICATIONS "Professioal Communications Line" PCL-300 Base Station Transceiver (1980) (NOTE: similar to the CL-300 introduced in 1979). Built-in AC power soupply, front panel status indicator lights, optional receiver scanning function available. 30 watts output, covers 136-174 AND 220-240MHz and has 0.3uV receiver sensitivity, 6 channels, and a reasonable price is claimed for it, too.

TEN-TEC, INC. Sevierville, Tennessee.

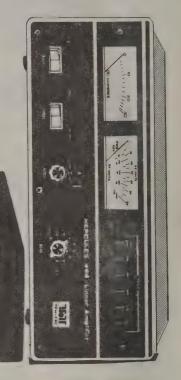
Model 234..A speech processor that will substantially add to the carry power of your transmitted signal.RF clipping followed by RF filtering thru a 4-pole monolithic filter, and demodulation back into the audio signal prior to being applied to the Xmtr mic input. yeilds higher level of processing without added distortion. May be used with any SSB station to extend range under adverse conditions. Ten-Tec Electret mic Model 214 is recommended for best results (extra). Price \$124..Mic \$39

Model 444. "Hercules" 1KW linear amplifier. All solid state—no tubes. Broad band design needs no tuning., full breakin, full coverage 160 thru 15 meters, Aux positions for 10 meter or other bands (user modified). Requires driving power of 50 watts (typical).100% duty cycle for SSB, 50% duty cycle for CW/RTTY. Six LED's give continuous status indicators of various operating conditions. For 120/210 VAC operation. Price for amp and power supply \$1575

Model 509. "Argonaut" QRP transceiver.Rated at 5 watts. Operates on 80 to 10 meter abnds (5), SSB/CW.Receiver has sensitivity of less than 0.5 uV, offset tuning, 4 pole IF xtal filter, Analog dial. Has full breakin, built-in SWR and TVI filter.DC operated. Ac supply optional. Price \$369 .. Model 210 power supply \$34

Model 283..Remote VFO.Features 6 modes of dual frequencyoperation Ten LED indicators provide graphic display of freq. position . Each LED indicates 50 kHz segment of the 500 kHz range.Includes all connecting cables. Price \$179

Model 515 .. "The Argonaut".A QRP transceiver. 5 watt output. This is an updated version of Model 509..plus: better rcvr sensitivity 0.35uvfor 10 dB, new heterodyne VFO permiability tuned, 5 bands - 3.5,7,14,21, and 28 MHz with 10 meters split into 500 kHz segments (29-29.5 MHz segments require optional xtals..New offset tuning with LED indicator. Full CW breakin. Built-in SWR. Price \$429



See Model 515 below for apperance of this model



TEN-TEC 283 remote VFO



Model 525.."Argosy". Another of the QRP series of QRP transceivers. Only 5 watts power output but in addition to CW it has SSB. Same general features as the 515 Argonaut abive, plus RIT offset tuning, IF notch filter, also variable band width (3 positions). Intro in 1982. For a.c. operation external power supply available. Price \$599.. Power supply exra.

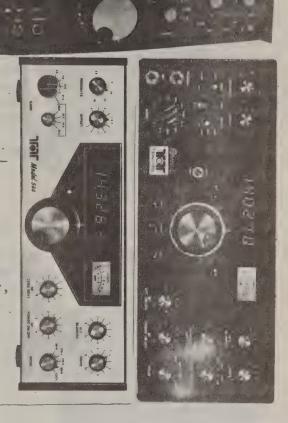
Model 540/544 ..Transceiver..Power choice and analog or digital readouts..200 watts from the bottom of 80 to the top of 10 meters (mfr).. All solid state, instant band change without

Note: This unit described in Oct.82 QST.

tuneup, sensitivity 0.3 uV.Offset tuning,8 pole xtal lattice filter, WWV at 10 and 15 MHz.ALC, LED indicators, built-in SWR bridge.PTT, full CW breakin.Power supply is extra.

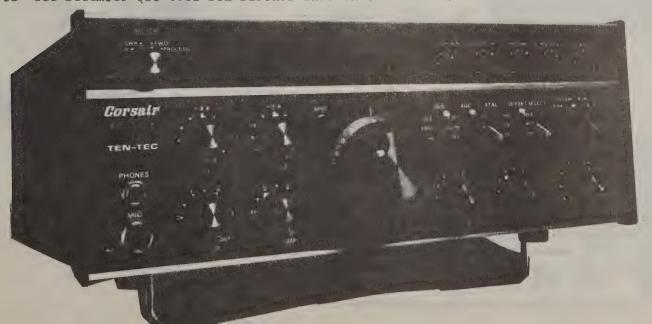
Price model 540(analog) \$699..Model 544(digital), Price \$869..Power supply Model 252M price \$119

Model 545/546..."Omni" transceivers. The top of the line model. All solid state 200 watt final amp. 8 bands 160-10 mtrs plus an "Aux band position for covert to 10MHz. Broadband design for no tuneup Builtin VOX and PTT, squelch, 4 position CW/SSB filter, 8 pole xtal filters in all modes, 2 speed breakin, 2 range offset tuning, optimized sensitivity of 2uV on 160m to 0.3uV on 10 m.WWV at 10 MHz.phone patch jacks.. Separate power supply needed. Price model 544 \$899.. Model 546 (digital)\$1069, Power supply 252MO \$119.. Other options available. Note: A later ad listed an improved546C at \$1189



Model 560.."Corsair" HF Transceiver. A new design provides extremely good sensitivity, low internal noise and high dynamic range. Has an unusual front end cutout toprevent overload (claimed to be better than an attenuator). Filtering system consists of a 2.4kH 12 pole ladder sideband filter system, variable bandwidth for SSB, bandpass tuning helps cut QRM. full cw breakin, Ofset tuning allows receiver and xmtr to be tuned separately. with a \(\psi/-1\) kHz range for fine tune, For net use both can be tuned simultaneously. LED frequency display, SWR neter. Many convenience features. For 120 VAC (built-in) Price \$1169

Note -see December OST 1982 for further info on this model.



Model 570/574.."Century 21" Series Transceiver.Considered to be an ideal Novice unit.. 70 watts output to pushpull Class C amp. All solid state, 5 bands 80-10 mtrs.CW and SSB rcvr sensivity 1 uV or less,offset tuning,3 band selectivity Receive CW and SSB but transmitts only CW,Broad banded for no tuneup or resonating.Built-in A.C.Model 570 is analog tuning, model 574 has LED indicators.

Price model 570 \$299..Model 574 price \$399

Model 580.."Delta" HF Transceiver..All solid state, covers all 9 HF bands 160-10 meters, including the 10,18,25.5MHz bands, low noise double conversion design, with 0.3 uV sensitivity for 10 dB S+N/N. 8 pole monolithic SSB filter, with 2.4kHz bandwidth, notch filter, offset tuning, "Hang" AGC, WWV at 10 MHz, S/SWR meter. Xmtr 200 watts input on all bands 100% duty cycle, QSK, VOX, PTT, Permiability tuned VFO. Digital readout .Needs power supply Model 280. Price \$755..Power supply \$139



Model 150..An antenna tuner unit for up to 200 watts from 3-30 MHz. Power meter VSWR bridge feeds any kind of antenna.All controls on front panel. Price \$99.95

Model 2000. An antenna tuner unit that will handle the full legal limit to all types of ants. Dual meters give forward and reflected power at the same time. Price \$349.95

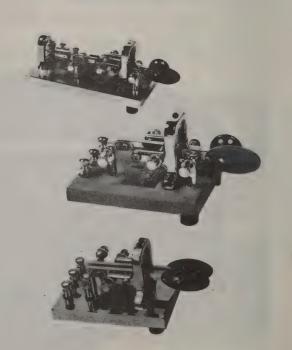


<u>VIBROPLEX</u>, Portland, Maine. Automatic and manual speed keys. (We thought you might be interested in these types of keys as they are in wide useage)..

The ORIGINAL BUG. Press the thumb piece and the vibrating lever bar produces dots; make dashes manually with the finger piece. Speeds adjustable from 20 to as high as practical. Standard model \$56.95, Deluxe model \$69.95

The <u>VIBROKEYER</u>. A special model made for those who use electronic keyers. Contacts are such that you don't have to relearn keying (i.e. as compared to a"bug".) Heavy steel base prevents creaping, tension and contact space is adjus-able, coin silver contacts. Standard wrinkle finish \$49.50. Deluxe chrome \$65

The <u>IAMBIC</u>. Made to allow automatic insertion of dot/dash to take advantage of some of the keyeing features of modern electronic keyers. Has dual paddles. Standard model \$49.95.. Deluxe, chrome, \$65



<u>VoCom Products Corporation</u>, Prospect Heights, Ill Power booster amplifiers for the higher frequencies.

Model 2C025..A 25 watt amplifier requiring only 0.2 to 2 watts to drive to full output.Lower outputs with lower drives.Operates from 12 VDC source.Ideal as an addon to handhelds.,10MHz bandwidth for CAP or MARS. Price \$84.95

Model 2C100.. Similar to 2C025 but has higher power output of 100 watts. Ideal for getting out better Price \$199.95 (See April 1981 QST)

Wilson Electronics Corp, Las Vegas, Nevada. Manufacturers of hand helds and booster amplifiers for mobile uses..Only material available is for the handheld described below.

Model MARK 11..A 1 or 4 watt handheld transceiver for the 144-148 MHz band. 6 channel operation, xtals required. LED battery indicator, Individual trimmers on TX and RX Xtals. switchable low/high power.12 KHz ceramic filter and 10.7 Monolithic filter. Uses special rechargeable Ni Cad battery. Rubber Duck antenna and one pair of xtals 52/52 included. Price \$189

Model MARK 1 V .. Similar to the above but with 4 watt max power output, and 5 xtal pairs, your choice \$212

Waneco Radio, Hawthorn , California.

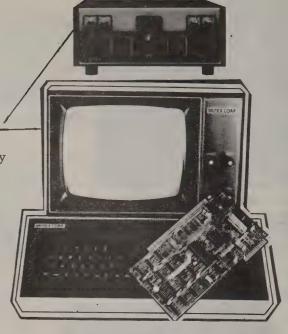
Model 1040R. A receiving audio filtering processor. A new approach to using a filter at the receiving point to improve readability. Plugs into the rcvr output jack. Exclusive 3 band continuous coverage SSB filter eliminates monotone carrier interference. Fingertip control over a 45 or 105 Hz bandwidth. Audio speech level strength meter. Built-in loud speaker. Price \$185



XITEX CORP , Dallas Texas.

Model SCT-100.. A keyboard terminal, features:
64x16 line format with 128 displayable characters,
Serial ASCII or BAUDOT with multilpe Baud rates,
Full cursor control with scrolling and paging,
Serial interface RS232 or current loop. Assembled..
Price \$375.. Monitor model available at \$149.

Model MRS100.. Morse Transceiver. Connects directly with any ASCII or Baudot Teletype(R) Terminal, operates 1 to 150 WPM with automatic Sync.Displays WPM rate of copied signal plus FIFO buffer status. Built-in 80 Hz bandpass filter and sidetone osc. Price assembled \$295.. As a Kit \$225



(With New WARC Bands)

YAESU ELECTRONICS CORP, Paramount, California

Model FT-101ZD.. An upgraded version of the FT-101Z introduced in 1979.Covers 160 - 10 meters on SSB and CW, Has WWV check point (receive only)..Provision for the new WARC bands Digital plus analog frequency display. Variable receive IF band with ,Built-in VOX, NB, and RF Speech .6146B . Output limited to 180 Watts DC input without the addition of cooling fan. Operating modes LSB, USB, CW . With optional filters selectivity can be as 600 Hz at 6 dB down, 50-60 dB image rejection, audio out 3 watts at 4-16 ohms. 1981 List price \$942

Model FT-102..A new all band transceiver, for modes SSB, CW, FM, AM.. 240 watts DC input SSB, 3 6146's in final amp, Has unique cascaded IF filter system with dual IF frqs. of 8.2 MHz and 455 kHz, new receiver front end using field effect transistors, IF Notch and Audio peak filter, variable IF bandwidth plus IF shift, a wide selection of wide/narrow filters are available by use of difference optional filters. noise blanker, dual metering system provides for display of ALC voltage Plate and current, plus relative power output. RF Speech processor, VOX for hands free operation on phone., Has both analog and digital readouts. A.C. operated. Price \$1149

Model FT-107M. Transceiver, covers 160 thru 10 meters. Has Aux positions for conversion or WARC. Power input 240 watts SSB and CW,80 watts AM and FSK. All solid state so more critical to SWR. Offset tuning on both RX and TX, digital and analog readout, peak notch filter, SWR meter, variable band widths, tuneable audio filter, variable IF bandwidths for better results on crowded SSB . Has Double memories each of which can be used to control rcvr and xmtr, or both. 12 memories. Operates from 13.6 VDC . Price (1981) \$1149. AC Power supply FP107 Price \$139. With speaker FP107E \$145

Note; See QST April 1981 for a reveiew of this model.







Model FT-207R..Hand held Transceiver for 144-148 MHz. A CPU controlled unit with up/down manual or auto scan in 5 or 10kHz steps.Has 4 channels of frequency memory and +/- 600kHz or odd frequency splits.RF output 2.5 watts.Operates from rechargeable NiCad batteries. Price \$299

Model FT-208R.Hand held transceiver for 2 meter FM. LCD display with Lithium backup cell.Selectable 5kHz/10kHz scanning. Ten memories with auto/resume scan. 16 button tone encoder.4 digit LCD display. Price \$319

Model FT-708R..A 70 Cm 440-450MHz hand held transceiver, similar to the above FT-208R..Price 319

Model FT-404R. A hand held transceiver for the 430-450 MHz band. 6 channels, 2.5 watts RF output. Has built in condenser mic, NiCad batteries and rubber flex ant. Controls on top. Price \$299

Model FT-230R. A mobile 2 meter transceiver with Liquid crystal display, Has micro-processor convenience and a sensitive receiver.LCD five digit freq. readout, Two VFO's for quick QSY across the band, ten memory slots for storage and recall. Selectable synthesizer steps(5 or 10 kHz) in dial or scan mode. Full 25 watts output.

FT-208R

2 Meters

FM Handheld

FT-708R

FM Hand

70 cm



Use optional YM-49 speaker/mic and YM-50 DTMF encoding mic for max versatility. Price \$359 (1981)

Model FT-480R.. A base station UHF transceiver. Covers 143.5 to 148.5 MHz (1981). USB/LSB/CW/FM operation are all built in. 4 channels of memo ry, Two VFO's for unusual repeater splits. Synthesizer steps of 10,100, or 1kHz per step on SSB/CW, 1kHz, 20 or 100 kHz per step on FM. Receiver offset tuning for following Doppler shifted signals. SAT switch allows shifting of TX frequecy during OSCAR operation. 30 watts DC input FM/CW, 30 watts PEP on SSB. Flourescent freq. display, LED signal strength/relative power level. Requires 13.8 VDC neg ground. Price \$529

Optional power supply for a.c. FP-80A..\$95

Note: See October 1981 QST for a review of this model.



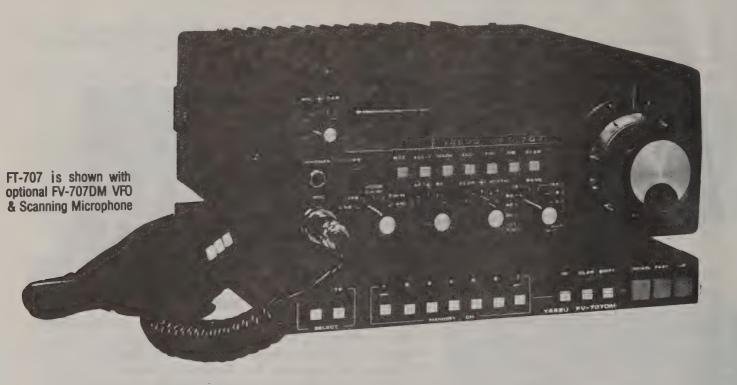
Model FT-680R..A microprocessor controlled 6 meter all mode transceiver.SSB/CW/AM/FM. 4 programmable memory channels. LED frequency display,PTT switch,up/down scanning plus tone call button. Covers 50-54 MHz.13.8 VDC. Price \$520



Model FT-707..An 8 band digital transceiver.Full 100 watts output on 80 to 10 meters. Operates SSB/CW/and AM modes.Ideal as a portable or home station,or mobile.Operates from 13.8 VDC,A.c.power supply optional.High degree of selectivity from 16 poles of filtering, VBW,Fast/slow AGC selection,noise blanker.Builtin calibrator,WWV,bright digital readout, 2 Aux bands for future expansion,Bar type monitoring shows signal strength,poweroutput and ALC voltage.

Versatility can be greatly improved by addition of FV-707DM .Allows storage of 13 discrete frequencies from DMS.Synthesized VFO.

Price FT-707 \$810. Power supply FP-707 \$162. Optional FT-707DM \$279 (1981)



Model FT-902DM. (1981). An all new deisgn which includes factory installed WARC bands. Digital readout shows true frequency on all bands, all modes, 9 bands- 160 to 10 meters. All controls on front panel. This is an improvement of the FT-901 Has Variable IF Bandwidth, diode ring receiver front end, builtin memory system, audio peak filter, IF rejection tuning, SSB/CW/AM/FM/FSK. Built in Curtis 8044 IC keyer. Digital readout, plus analog readout, speech processor, AC/DC operation built in. Uses all the accessories common to FT -101ZD and FT 901/DM. Price \$1535



Model FT-720R/FT-720RU/FT-720RVH.. A series of items which when connected together make up a highly flexible UHF system. (1981)..

FT-720R is the master control head for the system, microprocessed to provide maximum flexibility, it controls the receiving action and the transmit functions to add-on modules for transmitters. Units can be clamped on or remotely located for convenience.

FT-720RU is a 10 watt 440 MHz transmit unit.Connects to FT-720R control.

FT-720RVH is a 25 watt 2 meter transmit deck. Connects to FT-720R control.

This combination permits operation on two bands from a central location. 13.8 VDC. Prices - FT-720R \$199..FT-720RU \$449.. FT-720RVH \$229 (1982)

